# REPORT.

ON THE

# QUESTION OF THE ASSESSMENT

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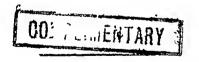
# LAND AND WATER REVENUE IN AIMER-MERWARA

WITH

PROPOSED REVENUE RATES FOR DISTRICT AJMER.

BY

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FROM

W. J. E. LUPTON, Esq., C.S.,

SETTLEMENT OFFICER.

AJMER-MERWARA,

AJMER.

To

THE COMMISSIONER,

AJMER-MERWARA,

AJMER.

Dated Ajmer, the 22nd August 1908.

SIR,-

With reference to the Hon'ble the Chief Commissioner's letter No. 1348, dated the 6th April 1907, I have the honour to report as follows on the matters dealt with in paragraphs 5, 6, 7, and 8 of the letter of the Government of India No. 417-42-2, dated the 26th February 1907.

2. The general portions of this report might have been submitted over a couple of months ago, as the main principles of its proposals are those that were discussed with, and in outline agreed upon, I think, by the Hon'ble the Chief Commissioner in February, when he was in camp and inspected certain tanks and villages with me for a week then. It seemed desirable, however, to present with this report the rates for the re-assessment. With these the system of assessment proposed could be illustrated by their probable effect upon circles and individual villages, and a number of detailed matters more definitely worked out.

Unfortunately the materials for working out the net assets and therefrom the rates did not exist ready to hand in the form in which they were required, and much tedious and detailed extraction work has had to be done, which has taken longer than was anticipated. Some further time also has had to be spent in reconciling, or discovering the cause of, certain discrepancies found to exist between those extracted figures and the total of the Milan Khasra statements, in order to check the figures from which the assets and rates were to be deduced and to get them as accurate as possible.

3. With regard to paragraph 5 of the Government of India's letter there is little to be said. Mr. LaTouche wrote at last Settlement (para. 244 of his final report):—

"No classification of soils is recognised in Ajmer-Merwara, and the people themselves know no other division of the land than that founded on its means of irrigation. They divide the soil into chahi... talabi... abi and barani or unirrigated land..."

"It seemed worse than useless to attempt a classification of soils which was locally unknown, and which could not have been relied on for assessment purposes..."

After having now inspected in detail all the villages of the Ajmer Tahsil, and of more than half of Beawar, and having toured extensively in the rest of Merwara, and discussed the subject many times with the

villagers, I find that the above remarks are as true now, thirty-four years later, as they were then. There has been no change in this matter.

4. There are, of course, obvious differences of soils; clay, loam and sand exist, of varying grades. But it is equally a fact that the villagers here have no ideas about soils natural and artificial such as the Mainpuri cultivators, for instance, have, who themselves teach the Settlement Officer the whole jargon of their "soil" distinctions-Gauhan, Manjha, Barha, Dumat, Piliya, Bhur, Tarai, Matyar and the rest of it. The villagers of Ajmer-Merwara of course recognise differences in different fields or groups of fields, but they do not distinguish these differences by "soils," as that term is elsewhere understood in the expression "soil classification." With them the differences is always found on cross examination to resolve itself into one of productiveness. That field or group of fields or that portion of the village, or that village, is better than some other because the former will produce better out-turn or better erops than the latter. Examined further, this difference in productiveness again is found to depend on the factor of irrigation. Excellent crops will at times, if the rainfall is favourable, be grown without artificial irrigation, but the rainfall is very uncertain, and no trouble is taken with ordinary barani lands whose moisture is supplied only by rain. Where, however, lands are commanded by a source of water supply the cultivator, under the ineentive of the latter, will go to work to "make" his field, and to these irrigated fields he will apply all, or practically all, his manure. He will not risk his manure on the uncertain unirrigable lands. Stocks of manure are not too plentiful—on the contrary they are in general not sufficient even for both his "tank" and "well" fields, and the manure goes by preference to the "well" fields, where for several reasons there is usually more conservation of material.

These well-irrigated or tank-irrigated lands, however, are to the villagers known simply, and sufficiently, as chahi or talahi lands. Of the rest of the cultivated area there are patches recognised by the name of ahi, on which water collects, or is induced to collect and to sink into the soil; the remainder is all lumped together as harani. Any further nomenclature or distinction of soils, however, are unknown to the villagers; is, in fact, quite foreign to their ideas.

Nor is anything further than the above simple classification really required for the purposes of assesment. It is true that even the chicki lands are not all of uniformly equal quality: that in one village the chahi soil is a good natural loam to start with, with a good, assured, water-supply and ample manuring, while in another village the natural soil to start with is a thin sand, the water supply intermittent only, and manure searty: that in one village the talabi sail may be a good natural soil, well manured and enrefully tilled by a set of industrious Jats, while in another village the tank water will be allowed by earcless unencreetic cultivators to swirl negligently over insufficiently plonghed and unmanured sand: that the abi soil here may be only a few inches of soil over close-up rock, quickly drying and so shallow as hardly to give sufficient depth to the erop-roots, while there it may be a deep rich soil of great capability; and lastly, that the barani soil in some places is also a deep and naturally good loamy, level, soil, while elsewhere it is either a thin, shallow soil much intermixed with stones or pebbles, with the sub-surface rock close up, or broken up by small ravines, or, as in the Pushkar valley, sheer sand.

With an assessment based radically on soil classes alone, these patent observed differences would require sub-classes at least to be made of the four main soil distinctions, e.g., chahr I, chahr II, talabr I, talabr II, etc. I had indeed originally intended to form such soil sub-classes, but in the meantime my ideas changed, or grew, on the subject of the method of assessment, and on reconsideration I abandoned this tedious detailed sub-classification as unnecessary. In any case the demarcation of the limits of these sub-classes would be a very difficult and lengthy process. It is sufficient, I think, that during my detailed inspections I have recorded notes of the general soils contained in each village, and their

relative superiorities or inferiorities will be taken into account by me in guaging the relative capacity of each village and in fixing its assessment rates.

- The question of depth of soil will also come into this account. This question forcibly strikes one who is traversing these villages with their masses of rock alternately emerging from and disappearing into the soil. Over a very large portion of the area of Ajmer-Merwara the surface soil is very shallow, lying over rock which is in general close up to the surface. The greater depths of soil are caused by the dips in this rock substratum. A certain depth of soil is needed for successful cultivation. A shallow soil can take up only a scanty store of water and manure: it dries quickly, gets rapidly hot under the powerful sun, and its crops wither at the approach of drought. A village in which the soil is mainly very shallow is thus likely to be, so far, of much lower capacity than one in which the soil is throughout, or largely, of a good depth. Observations have been taken here and there in each village of the depth of the surface soil down to the rock or down to three-feet depth. It is not claimed, of course, that by this process all the soils have been accurately measured in depth: such exact accuracy in detail was not necessary, as this soil depth was not to be the sole basis of the assessment, but one only among several other determining factors. All that has been aimed at is to obtain an approximately-correct general idea of the soil depths of a village, and to use this information as a further guide at the time of assessment.
- 7. The present conventional classification of the cultivated areas into chahi, talabi, abi and barani only is therefore being retained without addition. This is simple and is the cultivators' own classification. Certainly any other soil-classification with a nomenclature that is strange, and with connotations unknown to them, is not necessary for the work of assessment. Each field in each village will be classified in the new Settlement volume as belonging to one or other of the above four classes—which classification will be always on record—while instructions will be laid down that in each future year the field shall be recorded at each harvest according to its actual character at the time of cultivation.
- 8. I may as well refer at this place to the question of the classification of the villages into circles for assessment purposes. The admitted main purpose of the existing circle-classification—Mr. LaTouche's—is to block off the Ajmer district at any rate "into homogeneous circles of undoubted distinctive natural features," and from this point of view I do not think that his circle-classification could be improved upon (except as regards the circles in which a few individual villages here and there and a clump of sandy villages round Srinagar might be placed). But as Mr. LaTouche himself remarks (para. 255 of his final report), "no classification except that of forming circles without regard to proximity in place can prevent inferior villages being classified with superior." The villages of any one of the existing circles are naturally not all on the same level.
- 9. The essential object of circle-classification, apart from mere convenience in assessing, is to cusure that good villages are not assessed below, while poor villages are not assessed above, their real eapacity. If the circle is large or comprised of a number of villages with widely-differing capacities, the difficulty is increased of avoiding over-assessment of the poorer villages.
- 10. There were two alternative plans possible for dealing with this problem: (a) to subdivide each of the present five topographical circles, where desirable, into two sub-eireles of (i) the superior villages and (ii) the inferior villages, or (b) to make entirely new circles of all villages all over the tahsil irrespective of their position, dividing them, say, into (1)

good villages with relatively good conditions and a high average of outturn, (2) bad villages with poor conditions and a low out-turn, and (3) intermediate villages.

- 11. Generally, however, the existing circles, with the exception of the Ramsar Circle are already small, in fact, too small for further division. There are only one hundred and thirty-nine khalsa villages in the Ajmer tahsil (apart from khalsa portions in three Jaghir villages), and fifty-seven of these are in the one circle of Ramsar. The remaining eighty-two are already divided into four circles, Ajmer circle containing fourteen only and Pushkar only nine.
- And the second alternative also I have rejected after some consideration. In the first place, the tahsil would become a confused patchwork of circles, and it was a question also whether the benefit to be gained by this drastic break with the past would be worth the considerable disturbance and labour involved in re-shifting all the previous statistics for all villages. I think, however, that the interests both of the villages and the State can be duly safeguarded even with the present circles retained, by a judicious variation in each case of the average circle rates. In the United Provinces under the standing rules the Settlement Officer may vary his circle rates up to twenty-five per cent. either way to suit individual villages. This allows already for at least three sets of villages in each circle: e.g., with an all-round average (i.e., circle) rate of Rs. 3 we can assess, within such prescribed limits, one set of villages at Rs. 3-12-0, one at Rs. 3 and a third set at Rs. 2-4-0. The same principle can be applied in Ajmer-Merwara, and should cover all ordinary cases, excertional cases being of course treated in an exceptional way.

Moreover, with a fluctuating system of assessment such as is now proposed in this report, by which the amount otherwise assessable at even the moderated rates, will be capable of further proportionate reduction if the outturn of the particular harvest falls below a standard average out turn calculated on the actual out-turns of its past records; the question of circle-classification is not so important as in an assessment in which the sole determining factor is the soil rate or crop rate. Here we have two elastic factors, the second one of which will tend effectively to correct any ten-

dency to excess in the soil or crop rate.

- 13. From these considerations also I have ultimately let the old Ramsar Circle in Ajmer district stand as it is. Even to the most casual observer the clump of sandy villages round Beer and Srinagar, to the north and north-west of this circle, are different from, and inferior to, the usual loam and usar and better-irrigated villages of this circle. I had at one time contemplated making a separate circle at any rate of these, some thirteen in number, adding to them some four or five villages with similar sandy soils along the foot of the Rajgarh hills in the Rajgarh circle. For the reasons indicated above, however, this further sub-division has since seemed to me to be not essential for practical purposes. The necessary moderation in rating these villages will be adequately effected on the data otherwise available, without making a sixth circle and framing a sixth set of rates.
- 14. I have thus in the end retained Mr. LaTouche's circle-classification in tahsil Ajmer (Merwara will be separately reported upon later), unchanged with only one exception, which is, that I have moved the village Madarpur from Mr. LaTouche's Ajmer Circle into that of Gangwana, where it ought obviously more properly to be.

#### TALABI AND ABI SOILS.

· 15. In para. 7 (i) of their letter the Government of India, in referring to talabi and abi cultivation, which, they remark, is already to a large extent under fluctuating assessment, and might for the future be

placed entirely under this form of assessment, express the "hope that no difficulty will be found in arranging for an acreage assessment, harvest by harvest, on the area actually cultivated as abi or talabi in the harvest in question."

- 16. As at present maintained and assessed, the tanks of Ajmer-Merwara fall into four classes; viz:—
  - I. Crop Rate Tanks.
  - II. Variably Assessed Tanks.
  - III. Fixed Assessment Tanks, maintained by Government.
  - IV. Fixed Assessment Tanks, maintained by the village.

For ready reference I give the following figures relating to these several classes of tanks in the Khalsa areas:—

STATEMENT I.

		<u></u>		<del></del>				
	Tahsil.			Class I Crop Rate.	Class II Variable.	Class III Fixed.	Class IV Fixed.	Total.
		Number of Tanks		12	53	44	50	159
	Ajmer.	Area assessed Acres		7,4	18	1,8	45	0,263
		Land Revenue plus W	ater Re.		s. ,710	R 5,0	.s. 338	Rs. 35,348
-		Number of Tanks		15	21	134	65	232
	Beawar.	Area assessed acres		3,10	60	4,4	13	7,573
MERWARA.		Land Revenue plus Wat nue assessed	ter Reve-	R 13,4			Rs. ,907	Rs. 25,373
MER		Number of Tanks		22	9	69	52	152
	Todgarh.	Area assessed acres .	. ,	74	10	1,8	21	2,561
		Land Revenue plus Wat nuc assessed	er Reve-	R. 2,9		R 7,3		Rs. 10,261
		Number of Tanks		46	83	247	167	543
	Total.	Area assessed acres	•• •••	11,5	318	8,0	79	19,397
		Land Revenue plus Wat	er Reve-	R 46,1		R 24,8		Rs. 70,932

The figures of the number of tanks are as at present, including new tanks built since last Settlement, but, as the Water Revenuc varies from year to year on the first two classes, the figures given of areas and of the amount of Revenue assessed are the standard areas and revenue assessed by Mr. Whiteway (as given in paragraph 85 of his final Settlement Report).

17. The tanks of classes I and II, it will be seen, though numerically much fewer, viz., 129 as against 314 fixed tanks, are from the point of view of revenue, far more important; that is, of the total assessments

on lands irrigated from tanks some two-thirds are already on a fluc-

tuating basis.

In Ajmer tahsil the third and fourth-class tanks are comparatively unimportant. In Merwara, on the other hand, their lands furnish the greater tank revenue. They are most numerous in Beawar tahsil, but they are also very numerous relatively to first and second class tanks in tahsil Todgarh, where also they furnish the bulk of the revenue.

- 18. Further analysis, however, shows that this revenue on fixed tanks comes practically all from the third-class tanks. Thus in Beawar, of the sixty-five fourth-class tanks listed, thirty-seven of them were not even assessed at last Settlement, that is, no direct irrigating water revenue was laid upon them, and on the remaining thirty the actual direct water revenue fixed, amounts, according to the figures furnished to me by the Tahsildar, to Rs. 48 only. The figures of the actual water revenue which may be credited to the fourth-class tanks in the other two tahsils are not on record, but the fact remains that in these two tahsils also the revenue on the third and fourth-class fixed tanks comes mainly, if not practically all, from the third-class tanks.
- 19. Of the "fixed" tanks, therefore, the third-class tanks are, from the revenue point of view, really the only important ones at present.

The reason is that these third-class tanks are what may be reasonably called "tanks." They are kept up by Government agency: their maintenance is not dependent on the spasmodic, half ineffective, and more often than not wholly wanting, efforts of large incohesive brotherhoods of indigent peasantry who have no surplus funds to spend on tank repairs.

- 20. The fourth-class are, on the other hand, now, the majority of them, the merest apologies for tanks; they are nearly all very small, and even in the most favourable years hold up very little water, or irrigate only small areas: while most of them are now in very bad repair and have ceased to be effective as tanks at all. The real revenue that could be derived from these tanks is, in their present condition, quite small.
- 21. Nevertheless, I think that both these third and fouth-class tanks should be put on an uniform fluctuating system. In the case of the third-class tanks no difficulty need be apprehended in meeting the Government of India's wishes in this respect, and in bringing their assessment into line with that proposed for the first and second-class tanks. The announcement of the decision to bring these third-class tanks under fluctuating assessment may at first cause here and there some slight grumbling on the part of those who do not at present desire a change from fixed to variable assessment: but the people would soon get used to the new system and settle down quiefly to it when once they perceived that the object of the Government is not simply to extract a larger revenue from them, but that the scheme of assessment is devised also in the villagers' own interests, and—most important of all—if only they are fairly treated in the matter of the harvest estimates by the patwaris and subordinate revenue staff generally.
- 22. I have stood over many a "fixed" tank discussing the question of assessment with the villagers, and at present, it must be admitted, the more general feeling of these "fixed" assesses is in favour of a retention of these fixed assessments. This feeling is very largely a matter of keeping to what one is used to, the natural human feeling that is at first averse from change whatever be its ultimate merits.—

"\* in erring reason's spite, One truth is clear, whatever is, is right."

But the general attitude is a simple straightforward, if one-sided one. "Take (they say) an average of good and bad years and give us a fixed (pueea) assessment, and let the State succour us (do 'parwasti' to us, is

their phrase, which may be translated here, as 'remit' the assessment) in bad years: do not expose us to the liability of having our assessment dependent at every harvest on the goodwill of the patwaris and of the lower revenue staff."

- 23. The pivot for success of the working of a fluctuating harvest-to-harvest assessment is, of course, ultimately the character of the Khasra work of the patwari and of its checking: but if the system is safeguarded by adequate cheeks and supervision, and, as already remarked, the villagers of these fixed tanks are made to feel that they are being fairly treated in their assessments, their present fears should be in time removed—just as the villagers who have now grown accustomed to the variable system on second-class tanks now prefer that fluctuating system, on the whole, to a fixed system. And in any case the Government maintains the third-class tanks at its own expense, and is under no obligation to continue for ever any one particular method of collecting its fair portion of the produce of the lands irrigated from them.
- 24. The fourth-class tanks, however, require to be dealt with more cautiously. In the first place these tanks belong to the villagers, and the Government at the present has no direct concern with them. In the second place, the villagers have long been accustomed to a fixed assessment on them.

These two facts, even when coupled together, do not of themselves, of course, constitute any obligation, legal or moral, upon the Government never to change the method of assessment, any more than the fact that the village wells are owned by the villagers and that always hitherto the assessment thereon has been fixed, would be held to bar for ever a fluctuating assessment on the well lands

Nevertheless, in many cases the sudden imposition without further action of a fluctuating system of assessment on these fourth-class tanks might cause some discontent, or give an opening to the villagers concerned to manufacture a grievance. These tanks, most of them at any rate, the villagers were induced to make, or to help to make, by Colonel Dixon; and in Merwara, at any rate, one is always being met with the remark by the villagers that when we, or our fathers, did this or that, or this or that event happened, Colonel Dixon promised us this or that. One never feels quite sure perhaps what Colonel Dixon did or did not promise: but there is no doubt that in many instances the villagers have the belief that they have now some sort of a right to a fixed assessment on their village tank.

25. As already remarked, however, a very large number of these fourth-class tanks are now in very bad repair, vide also the separate Note on these fourth-class tanks which is attached to this report as Appendix II. It is useless to expect that the villagers themselves will ever put these tanks into effective repair.

It is these facts, however, that afford the solution of the problem of how to deal with these fourth-class tanks in the matter of assessment.

In many cases the villagers themselves ask for Government to take over these tanks and keep them in repair. As I have heard them put it, in some instances: "We will give Government the tank if Government will put it into repair; this will be to the benefit of Government also, as we will pay the Government whatever water revenue on the tank it may then impose."

26. We have therefore something very tangible to offer to the villagers, in the case of these fourth-class tanks. On the general grounds stated in the Note forming Appendix II, I think that it is in any case desirable that the Government should put into repair and maintain these fourth-class tanks. We wish to change the system of assessment: the villagers wish to get their tanks repaired and kept effective. The Government should now formally undertake this responsibility of maintaining

these tanks on behalf of the villagers, and in return the villagers should pay the State revenue thereon in whatsoever manner the Government

may deem suitable.

I propose, therefore, that I now be given authority to make this announcement to the villagers in respect of every fourth-class tank, in imposing on it a fluctuating assessment, namely that the Government will from now henceforward put all these fourth-class tanks into effective repair as soon as may be and maintain them on behalf of the villagers, to whom the tanks will continue to belong, and that, in return for this undertaking, the Government will assess and recover the revenue on the lands irrigated from these tanks in the same way as the revenue is assessed and recovered in respect of the lands of all other tanks.

- 27. With regard to the actual form of the fluctuating tank assessments to be proposed, neither of the two fluctuating systems at present existing in Ajmer-Merwara on the first and second-class tanks can be recommended for adoption exactly in the form in which it now is, for the reasons given in the Note on the existing methods of assessment of classes I. and II. tanks, attached as Appendix I. to this report, perusal of which Appendix is requested. Both these systems assess on areas only, but a system is required which takes account of out-turn. It should be free also of the complexities and anomalies of the present variable system on second-class tanks, and more elastic than is either this latter system or the present crop-rate system on first-class tanks.
- 28. The system which I propose for the future, which will, I think, give full effect to the wishes of the Government of India, if not to their strict letter, first of all puts all tanks of all present classes on to the same one simple footing, and then takes the revenue on their lands by a rate per classes of crops applied to the actual cropped area matured at each harvest, this revenue again being subject to a proportionate reduction according to the character of the out-turn of the crops on the particular area matured, as determined by reference to "standard average yields" of the crops in question. It is in fact really only the old crop-rate system on first-class tanks, with the addition to it of the principle of demand according to out-turn.

As, however, I wish to propose that this same simple system be applied to *chahi* and *barani* lands also, I defer further discussion of it here until the circumstances of the *chahi* and *barani* cultivation have been examined.

In the meantime it need only be said that the present tank classification and also the present Irrigation Rules—except those relating to the management of tanks—may all be abolished, and the place of the rules abolished be taken by a few simple straightforward rules free of all intricacy and easily intelligible to the people.

29. The same system will apply to abi as to talabi lands. Much of the abi soil in the bed of tanks is already simply assessed by applying a fixed rate to the actual area sown at each harvest. The only modification required here is to assess, not the sown area simply, but that portion of the sown area which matures, and to assess that portion according to its out-turn. The system proposed allows for all this. The rest of the abi soils, now under fixed assessment, whether in the bed of tanks, or elsewhere, will also be brought under the same system.

#### "CHAHI" LANDS AND WELLS.

30. The general position as regards the wells and well lands in Ajmer-Merwara is already stated, in brief, by the Government of India in para. 7 (ii) of their letter No. 417-42-2, dated the 26th February 1907. I may, however, put in the following figures and facts, which serve not only to demonstrate the general truth of the proposition, as stated by

the Government of India that, "Wells in Ajmer-Merwara vary a good deal in their capacity from year to year and from place to place, and a considerable proportion of them are disused and out of repair even in normal times, so that in this case also a purely fixed assessment must result in the payment of a good deal of revenue by the peasants on lands which no longer receive the benefits in respect of which the revenue was assessed," but serve also to indicate conveniently the general history of the tract during the expiring Settlement period and the conditions on which we have now to assess.

31. The real point about wells in Ajmer-Merwara is that, except in a few localities, they are all rock wells, with only a percolation supply. In alluvial tracts elsewhere in India the subsoil contains practically everywhere a stratum, or strata, of sand, which act as a sponge and store up quantities of water which it would take a long series of years to exhaust. In these tracts well building is merely a comparatively simple question of overcoming certain mechanical difficulties: when once the sand-sponge-stratum is tapped and the spring level reached, the wells have a supply which for practical purposes may be called truly perennial. The water level of course sinks deeper at times—but there is always water in the subsoil at some depth, and it is usually merely a question, when going deeper, of keeping the well cylinder clear of silt.

going deeper, of keeping the well cylinder clear of silt.

In Ajmer-Merwara, there are very few places where workable wells can be dug without going through the rock. Generally, though the surface soil may vary from place to place in depth, yet underneath there is always rock, in most places almost immediately under the surface, through which rock the well has to be painfully blasted, until deep enough to collect a workable supply of water by percolation through crevices and along fissures in the rock. The great point about them is that the 'spring,' such as gives the supply in the permanent wells in an alluvial tract, is to

be found in only very few of these rock wells.

A percolation supply is always precarious. If there is rainfall, or a tank or some such reservoir in the neighbourhood still holding up some water, these percolation rock wells will get some water in them. But let the tank run dry, or the rainfall fail, and these wells also stand empty, or give only a small, often impracticable, supply.

32. As indicating how the water level varies in the wells over, at any rate, a portion of the tract along the railway line, I put in the following statement, with which I have been supplied by the courtesy of the local Railway Administration.

STATEMENT II. -Showing depth of water in wells in the middle of May for each year.

	Depth of		I	Oppul or	WATER	is Wei.	ls is Fr	ET.	
Place of Well.	bottom of Well below coping in feet.	1900.	1901.	1992.	1905.	1904.	1905.	1906.	1907.
1 '	2	3	4	5	6	7	8	9	10
1. Tilaunia North well	68	63	10	11	7	12	9	4	18
2. Do. South	$\frac{61}{60}$ , $\frac{61}{61}$	11	26	121	18]	15	93	4	14
3. Ladpura	68	8‡	13	123	19	14	28	24	26
4. Madar	54	63	131	15	151	15	22	74	11
5. Saradhna	79	•••	$22\frac{1}{4}$	•••	•••			•••	•••
6. Tabiji temporary arrangement	33		73	•••					•••
7. Mile 210/15-16	63	•••	17	17	143	101	103	51	12
8. Beawar	743, <u>80</u>	•••	15	6	2	83	113	23	9
9. Sendra	58		11	112	73	9 <sup>5</sup>	10½	2	114
10. " River			11					23	•••

(Note: denominator figures in column 2 denote the year in which the well was built or deepened.)

The ten wells listed here are, of course, railway wells, used for engines or drinking purposes only, but we may assume that the levels in other wells in the more immediate neighbourhoods of these are at the same times fairly closely similar, and as the Railway Administration makes periodical measurements of its wells and keeps up a careful record of them the figures in this statement may be relied on as correct.

Thus, to notice only one instance in detail—the well at Beawar—in 1901, the depth of water in it was 15 feet: in 1902, 6 feet: in 1903 only 2 feet: and it then rose to  $8\frac{1}{2}$  feet in 1904, and  $11\frac{1}{2}$  feet in 1905, but fell again abruptly in 1906 to  $2\frac{1}{2}$  feet only, rising again equally abruptly to 9

feet in 1907.

Mr. LaTouche's remarks in para. 274 of his report may also be quoted here: "The height of water in the wells, however, depends entirely on the season. In the dry season of 1871-1872 I measured a dry well at Dewair which was 60 feet deep, and next year this well was brimming over."

- 33. Even in the best of times many of these rock wells in Ajmer-Merwara, in tabsils Ajmer and Beawar, at any rate, seldom get at any one time a sufficient supply to enable them to be worked throughout the day. The usual supply is a seanty one which is exhausted before mid-day or in a few hours, and the crops have to be left until another supply accumulates in the well sufficient to make it worth while to work it again. In the case of the majority of these wells one can often stand over them when empty and hear the water trickling into them from the higher fissures in the rock.
- 34. These wells, however, would serve well enough within their limits if the rainfall was fairly eertain and came regularly at fairly definite times, but the rainfall in Ajmer-Merwara is notoriously uncertain.

This is so well known as to need no re-stating, but I put on record here the figures of the rainfall for the past twenty years in the Ajmer district:—

Years.	Inches.	Cents.	Years,	- <del></del>	Inches.	Cents.	
1887-1888 1888-1889 1889-1890 1890-1891 1891-1892 1892-1893 1893-1894 1894-1895 1895-1896	 22 18 21 12 8 37 25 25 17 23	0 7 4 5 5 28 20 33 05 02	1897-1898 1898-1899 1899-1900 1900-1901 1901-1902 1902-1903 1903-1901 1905-1906 1906-1907		20 14 8 28 12 15 22 16 6 23	93 05 36 18 91 57 41 56 79 33	(Average for 20 years-19·51).

A more detailed statement showing the rainfall registered since 1880 at the several rainguage stations in the district is given for reference in Appendix VII.

35. The average is nineteen and-a-half or roughly 20 inches, but these mere figures of the total amount of rain received each year is no indication of the real conditions in this tract. The manner of its distribution is much more important. If Ajmer-Merwara could rely on getting its annual rainfall well distributed at the proper time and in an agriculturally-convenient manner, a part only of even these 20 inches would suffice perfectly well to keen the tract comparatively secure and mildly prosperous. But not only does the total amount received, as the above figures show, vary very largely, but its distribution is equally a matter of chance and variability. In this matter there is nothing to add to the general indications of Mr. LaTouche's remarks in paragraphs 30-33 of his Final Settlement Report, except my own observations of 1907-1908. Here the total rainfall was generally some 20 inches-well up to the average in quantitybut the monsoon rains of 1907 came late, not till practically the beginning of August, and then practically this whole quantity of rain fell in the short space of twenty days. The tanks filled, fortunately, but this badly-distributed rainfall did much damage to portions of the Kharif crops, while its sudden and premature cessation eaused the whole Kharif harvest on the barani areas, inaccessible to irrigation, to wither up completely.

The distribution was also very uneven. Thus while Todgarh generally and portions of Beawar got regularly swamped out, other portions of the Beawar tabsil received next to no supply. Appendix VII also shows how in past years the distribution of the rainfall has varied largely

from place to place in the same district in the same year.

36. Mere quantity of rain, therefore, means nothing, except at times positive harm. Its figures require to be read with those of its distribution: and the latter can only be properly guaged from the observation of its effects upon the harvests. The character of the latter in the Ajmer district is shown in the statement now given, which I have compiled from the District Administration Reports for the past twenty-three years. (Similar statements for the Todgarh and Beawar tahsils exhibit, with slight variations, the same results).

#### STATEMENT III.—AJMER DISTRICT.

#### Crop out-turn character of the years since last Settlement.

Years.	Kharif.	Rabi.
1885-1886 (1293 F.) 1886-1887 (1294 F.) 1887-1888 (1295 F.) 1888-1889 (1296 F.)	Under average Poor Unfavourable	Area small and crops moderate. Poor. Suffered from want of irrigation and injured by hailstorm. Moderate, irrigation deficient.
1889-1890 (1297 F.)	Cotton fairly good. Other crops injured	Moderate.
1890-1891 (1298 F.)	Below average	Good in parts, but generally below average.
1891-1892 (1299 F.) 1892-1893 (1300 F.)	Very poor (Famine) Maize and cotton suffered (10 anna crop).	Very poor. Good (15 anna erop).
1893-1894 (1301 F.)	Good (13 anna crop). Cotton damaged.	Fair (13 anna crop).
1894-1895 (1302 F) 1895-1896 (1303 F.) 1896-1897 (1304 F.)	Fair (12 anna erop) Much below average Fair, eotton good, but Barani	Fair (13 anna erop). Poor. Seriously affected.
	suffered	Good average.
1897-1898 (1305 F.) 1898-1899 (1306 F.)	Good average Poor. Barani damaged	Fair. Injured by frost and winds. Area very small and out-turn poor.
1899-1900 (1307 F.) 1900-1901 (1308 F.) 1901-1902 (1309 F.) 1902-1903 (1310 F.) 1903-1904 (1311 F.) 1904-1905 (1312 F.) 1905-1906 (1313 F.) 1906-1907 (1314 F.)	Failed. (Famine)  Good  Poor, injured by drought  Poor (6 anna crop)  Moderate  Fair (10 anna crop)  Failed. (Famine)  Good (but poor in 14 villages of Gangwana Circle)	Dead failure. Fair. Fair to poor. Fair. Good. Poor, damaged by severe frost. Very poor.  Fair.
1907-1908 (1315 F.)	Good in irrigated, complete fai- lure in dry	Fair to good.

The general effect of this statement can only be called depressing. Out of forty-six harvests only some eight can be called good, that is not below a thirteen anna standard; a few more were of a moderate character, the remaining majority were poor. There were three decided famines in the period, and in several other years serious distress. The general average of prosperity has been undoubtedly low.

37. The general history of the period, that is of the last twenty years, is reflected also in the balance sheets of the demands and collections of the revenue. The figures for the Ajmer tahsil are as shown below:—

STATEMENT IV.

·Showing Collections of Lund Revenue and Water Revenue in the Ajmer Tahsil during Current Settlement.

													Balance	des,			
	Years.				Demands,	d <b>3,</b>		Collections.	rions.		.noissim9H			.zaibastzuO		1	<b>Веманк</b> я.
	1				63			8			-41			ū		<u> </u>	9
					Rs.	A.   I	   <sub>n</sub> ;	Rs.	सं	p;	Rs.		£	188.		2:	
1887-1888	:		Fasli		1,55,908	: :	:	1,55,713	:	:	:	:		195	:		
1888-1889	:				1,74,765			1,74,150	:	:	:		:	615	:	:	
1600 1601	:		.,		1,63,612			1,63,612	<b>~</b> I	:	:	<u>:</u> :	:		::	:	
	:		:		1,81,281		0 -	1,78,328	~ c	- ·	:	:	:	2,955			
_	-	1300	:		1,20,730			11,254	ے در د	ء -	096.9		:0	79,496	- 1	ر د د	Famine.
1893.1894			: :		2.53,278	: :		2,09,908	· :	. 67	37,590	110	- <del></del>	5,779		o	
1894-1895	:	_			1,75,995			1,74,402	14	:			· :	1,593		٠	
1895-1896	:	_			1,65,526			1,65,331	12	<u>10</u>	:		:	195		: :	
1896-1897	:	_	:		1,71,619		_	1,71,294	10	<u>-</u>	:	:	:	355	:	:	
1897-1898	:				1,62,001	10	_	1,61,871	01	_	:	:	<u>:</u>	130	:		
1898-1899	:				1,70,469			1,56,586	တ	en ;	:	:	:	13,883	<u></u>	,	
1001-6681	: :		"		1,52,688			70,499	ω,	01	69			82,119	=	20	Famine,
1900-1901	:		44	_	2,26,659		0	1,04,568	3	:	:	:	:	1,22,090		<u> </u>	
1901-1903	:		"		2,83,085		· ·	1,65,206	10	<u> </u>	:		:	1,17,878	ب د	_	
1902.1903	:		"		2,70,312	<del>ر</del>		1,00,766	۲۶	:	73,082	<u>-</u>		96,463	<u>~</u>	ೞ	
1903-1904	:		: "	_	2,53,938	_		1,17,772	:	11	:	:	<del>-</del> ;-	1,36,106	t	ın.	
1904-1905	:		=	_ :	2,91,732		_	1,97,241	12	:	- 3c	1.0		94,464	<u>-</u>	_	
1909-1906	:		5	<u> </u>	2,12,580			56,933	22	ı	1,459		ı.a	1,54,187	ဘ	_	Famine.
1906-1907		1314	:	:	3,06,431			1,13,635		-#	43,829		<u>:</u>	1,48,966	ಣ	r3	
Yearly average		_		<u> </u>		<u>                                      </u>		1,40,005				<del> </del>	<u> </u> 		<u>.</u>	Ì	

Nork. --Ine Gemands in column 2 include the fluctuating revenue in variable villages; also unremitted arrears of previous years,

The figures for 1907-1908 are not yet complete, but heavy suspensions and some remissions on account of the failure of the Kharif harvest

at least have been proposed.

In the last ten years, at any rate, the tale is one of constant and growing arrears, suspensions and remissions, and—notwithstanding that the people have certainly become demoralised to some extent—of real inability on their part to meet the Government demands and the interest on their debts, and yet live. The standard demand fixed by Mr. Whiteway was Rs. 1,65,625—for tahsil Ajmer (apart from variable revenue on 3,366 acres of abi soil in the bed of tanksi. The average annual collections, however, over the whole period has been Rs. 1,40,005 only, and during the last decade, Rs. 1,24,508 only. But apart from this loss of revenue, the Government has had also to incur heavy direct expenditure on Famine Relief.

- 38. Deducting from this standard demand of Rs. 1,65,625 some Rs. 20,000 for the average revenue on variable villages since 1893-1894, and some Rs. 25,000 variable water rate, we have remaining roughly Rs. 1,20,000, as the yearly normal demand on account of fixed assessments. The Rs. 45,000 above being already a fluctuating demand assessed at each harvest with some approach to proportioning the demand to the actual sowings at any rate, the strain which has caused the large arrears which disfigure the demand and collections balance statement must be considered as having arisen practically wholly from the pressure of this fixed rigid item of Rs. 1,20,000.
- 39. But, vide para. 86 of Mr. Whiteway's final report, the bulk of this sum relates to the assessments on the well lands, these having to contribute every year, no matter what be the state of the wells, over Rs. 73,000, or 61 per cent. of the whole fixed demand.

The aggregate chahi area in respect of which this sum of Rs. 73,000

was assessed was 18,237 acres (para. 85 of Mr. Whiteway's report).

The average chahi area cultivated, however, for the past fifteen years for which completed Khasras in their present form are available, has been (vide Appendix VIII.) 15,560 acres only. Even excluding the two bad famine years of 1307 and 1313 Fasli, and taking the average of the remaining thirteen years, we get an average annual chahi cultivated area of 16,017 acres only (vide Appendix IX.), and even for the five selected years from the figures of which the net assets (vide para. 145) have been calculated, the average chahi area is 17,084 only (vide Appendix X.).

This decrease of the *chahi* area has not been made good by an increased area of tank-irrigated areas, inasmuch as the average tank-irrigated areas for the fifteen and the thirteen year periods have been 6,018 and 6,382 acres only respectively, as compared with 9,263 acres assessed by Mr. Whiteway in arriving at his standard demand of

Rs. 1,65,625.

- 40. That is, all the foregoing figures indicate not only that the fixed assessment has utterly broken down in the unstable conditions of Ajmer, but that over an average of the last fifteen years for which we have figures some 2,000 to 3,000 acres of unirrigated land have been called upon to pay a full chahi rate of Rs. 4-1 (this is the figure of the district average chahi rate) per acre, and that the resources of the cultivators have proved unequal to meeting this charge.
- 41. How the sown chahi area has actually varied in each year in the past fifteen is shown in Appendix XI. The figures there given (which are approximate only for the reasons given in the statement) relate to the crop areas in both harvests, and require to be reduced in each year by some 20 to 25 per cent. on account of dofasli included to correspond with the annual cultivated area.

But again the mere figures of areas are not in themselves a sufficient guide to the economic position. The tract being a purely agricultural one in which all the produce that can be raised is needed for the support of the population, the amount of total out-turn per year is the important question. The people are best off when the total yield is large, even though the actual out-turn per individual acre may be somewhat under average. A small total yield is not compensated for by higher prices, as, to use the colloquial idiom, the people's stomachs are not filled.

To extract from the Khasras, the annual yields for each of fifteen years for every village of the district would have involved so much labour and expense and would have taken so long, that I have taken 55 villages only and restricted this extraction work to them. The results are shown in Appendix XII. What has happened in these villages may be accepted

as a sufficient guide to similar variations in the tabsil as a whole.

The variations, it will be seen, are somewhat violent. For these 55 villages the lowest figure of produce on the chahi lands is 29,202 maunds and the highest is 67,265 maunds, the average being 47,062. That is, the yearly produce even on chahi lands varies by so much as 43 per cent. above and 38 per cent. below the average. Even if the two famine years, 1307 and 1313 Fasli, be excluded the range of variation is still 34 per cent. below the average. Similar figures for talabi and abi soils are also given in this Appendix, and their produce variations are even greater. Cultivation on barani soil is considered separately in a later paragraph of this report.

In the summary of all the foregoing (paras. 31 to 42,) it is obvious that after all even for the chahi cultivation the governing factor is the character of the yearly rainfall. If this is favourable the resources of the cultivators are good to meet the revenue demand: if it is unfavourable the area decreases, there is a serious diminution in the food supplies of the people, and the revenue under a fixed assessment becomes unpay-The revenue-payers are not capitalists—they are all struggling brotherhoods of indigent petty peasant proprietors already much indebted, with whom, as Mr. Whiteway remarks (para. 26 of his report) the theory that the revenue might be paid in bad years from the profits of the good, does not hold water. "Like peasantry all over the world the zamindar lives from hand to mouth. He spends his surplus in good years, and when hard times come he is driven to borrow, and rarely afterwards manages to clear off the load of debt and accumulated interest."

The wells of the tract are rock wells peculiarly dependent on the annual rainfall: the latter is very, precarious, and more often than not ill-distributed: it is also, as often as not, very partial. There is perhaps a fall of rain in one locality and the tanks and wells here have a supply of water for irrigation, while at a little distance off the wells are still

In short, even as regards the wells and the well-irrigated lands of

Ajmer-Merwara, the only certainty is their uncertainty.

The question now is, how to assess these chahi lands for the future? In the first place an assessment on the lines of the old current system is out of the question—that is, if we are to proportion the demand to the outturn, and to avoid demanding revenue which is not really due. This old system has, certainly over much of the expiring Settlement period, been demanding, unsuccessfully, a high chahi assessment from some 2,000 to 3,000 acres in tahsil Ajmer alone "which no longer receive the benefits in respect of which a revenue was assessed."

There are, of course, the suspension and remission rules which, if promptly and carefully worked, could obviate much of the above evil. But in the conditions of Ajmer-Merwara, even as regards the fluctuating chahi cultivation, they would have to be very frequently applied. In . fact if with a fixed assessment these were employed to meet the problem of the *chahi* fluctuations, their application would have to be the rule rather than as elsewhere, the exception, held in reserve for abnormal times.

But a constant application of suspensions and remissions is very demoralising in its effects upon the cultivators. With such a system the only remedy to reduce the occasions of remissions and the work of remitting is to pitch the assessment low. But an assessment with reference to poor or bad years is not only out of all relation to even an averagely-good year, but has not usually been found by experience elsewhere, I believe, to be a real kindness to the cultivators. On the contrary, an enlargement of their credit equally generally results in an enhancement of indebtedness.

45. In para 7 (ii) of their letter the Government of India leave it to the Hon'ble Chief Commissioner "to decide whether a system of fluctuation similar to that proposed for abi and tulabi cultivation should be introduced, or whether a fixed assessment should be maintained subject to

the following provisions."

The provisions referred to are those to give effect to para. 11 of the Government of India's Resolution No. 6, dated the 24th May 1906, and the Government of India suggest that "the best way of doing this will probably be to place a lump sum on each well, representing so much of the assessment on the area irrigated by the well as in excess of the ordinary dry assessment that would be paid in the absence of the well, and to render this additional lump sum liable to remission when the well—for whatever cause—goes out of use."

46. I am not, however, able to advise the adoption of this second alternative method as the one best suited to Ajmer-Merwara. The system, as sketched above, of lump assessments on the wells to be remitted when the well goes out of use, would be only a very partial solution of the well problem in Ajmer-Merwara.

This problem is not simply one of the wells going in and out of use over periods of any length of time, or over definite tracts, or even of being in use up to their full assessed capacity in one year and absolutely

dry in the next.

The real problem we have to deal with relates to wells whose irrigation capacity varies largely from year to year, and often remain for long periods largely below any standard irrigable area that could be fixed.

- 47. With a simple system for the assessment of wells restricted to lump assessment on them, remissible when the well goes out of use, we should, first, have to fix some 'standard irrigable area,' for each well in relation to which the lump sum should be assessed. The fixing of this 'standard area' would, in the conditions of great variability which occur in Ajmer-Merwara, be a matter of some difficulty to start with, and, as an area would have to be fixed for each and every well, would take some considerable time.
- 48. Further, primâ-facie, as we are to be prepared to remit the lump sum in eases of the well going out of use, we ought to take as high as possible a figure for this standard irrigable area.

But a high standard irrigable area with this system would press very oppressively upon the owners of the wells which, while not actually out of

use, were much reduced in irrigating capacity.

49. This system, in fact, while being no doubt, next to a purely fixed assessment, the simplest to work, and representing a great advance from the latter in the direction of proportioning the demand from time to time to actual conditions, has the prime defect of not touching the wells under which the actual irrigated areas continue for long periods to be much

below the standard irrigable area without the water supply giving out altogether—a class of wells of the principal importance in Ajmer-Merwara.

- 50. Under this lump-system also the wells would only be really profitable when they could irrigate an area not appreciably below the "standard irrigable area," whether that "standard" be pitched at a high, easy, or low level. This is a fact which, if perceived by the people, would probably tend to discourage them from the building of new wells in the future.
- 5!. A further advance could be made towards solving that problem somewhat more satisfactorily by modifying the above simple system of lump assessments remitted when the well goes out of use, so as to provide for proportionate reductions of the lump assessment to the extent by which the actual irrigated area falls below the standard area on which the lump sum was increased.

This modified method, however, and certain other methods of assessing chahi lands in Ajmer-Merwara which seem to me to be possible may all be stated here and considered together.

#### These are as follows:-

- (1) To fix on each well a standard irrigable area, and to assess this area at a dry rate, and then to place on the well a lump sum (representing so much of the assessment on the dry area irrigated by the well as in excess of the ordinary dry assessment that would be paid in the absence of the well), and then to devise a scheme with a graduated scale according to which greater or less amounts of this lump sum should be remitted in proportion as the actual area irrigated at any harvest, or in the year, falls below the standard irrigable area, the whole lump sum being remitted when the well is entirely out of use.
- (2) To fix for each well a standard irrigable area, and to assess this area at a dry rate, and then to place on the well lands a fixed 'chahi' rate per acre. which rate applied to the standard irrigable area gives the standard chahi assessment on the well, and then to remit a varying part of this standard assessment harvest by harvest, or year by year, in proportion to the number of acres out of the total standard irrigable area which become unirrigable, or remaining unirrigated, and this whole standard assessment to be remitted when the well goes wholly out of use.
- (3) To fix a 'chahi' rate per acre of soil for each well or for a group of wells in a village, or for all its wells alike, and to apply this rate harvest by harvest to the area actually irrigated only—assessing any other land formerly 'wet' but now remaining unirrigated at the particular harvest at the dry rate or rates for the village.
- (4) To fix a 'chahi' rate per acre of soil etc. (as in method three), but to attach to this rate a standard of normal yield of produce out-turn per acre of soil, and to apply this full rate only to the fully-matured areas irrigated—and to reduce this full rate, or the revenue given by it for partial degrees of maturity—the degree of "maturity" of the actual area sown being determined by estimation of the produce out-turn of that area and its ratio to the standard normal yield.
- (5) To fix a chahi rate per acre of soil, etc. (as in method three), but to attach to this rate a standard of normal yield of produce

out-turn per crop per acre of soil, and to apply this full rate only to the fully-matured areas irrigated, and to reduce this full rate, or the revenue given by it, for partial degrees of maturity—the degree of maturity for each crop for each class of soil being determined by reference of the actual out-turns to the standard normal yields.

(6) To fix a rate per unit area (acre or bigha) per crop, or class of crops, a higher rate being fixed for the better crops and lower rates for the poorer or less lucrative crops—these rates to be fixed with reference to the average yields of the crops per averagely-matured unit area, and these full rates or the full revenue given by them, to be taken only when the outturn of the particular harvest is up to the standard of the average yields, but a reduction in these full rates, or rather in the total figure of the revenue which would be produced thereby, to be made in proportion as the actual out-turn per crop or class of crops fall below that standard.

52. Of these six methods, in the first place, each succeeding method

is, I think, better than that which precedes it.

Secondly, the first two of these methods not only have the difficulty, in initiating, of fixing the standard irrigable area, already referred to in para. 47, but would also still fail very largely of the expressed intention of proportioning the demand to the actual out-turn, that is, more largely than need be accepted, when much more effective, and at the same time really simpler, methods are available.

- 53. The second method listed in para. 51 would go further than the first method in solving the problem of the wells whose irrigating capacity remains for long periods below any standard irrigable area that could be fixed, but which do not go out of use entirely, and at the same time it would go a longer way towards actually proportioning the demand to conditions at the moment, so far as mere areas indicate them. But both would still be more complex in practical working than the third method, which dispenses, to start with, with the troublesome question of fixing a standard irrigable area and saves much time in the initial assessments, while it is simplicity itself in its practical working—meaning only the application of a rate to the *chahi* area recorded in the Khasra.
- 54. As compared with the methods 4, 5, and 6, however, this third method also, though the simplest of all, still suffers from the defect of regarding cultivated area only. And if we were assessing chahi land only in a stable tract, this defect would not be serious, inasmuch as, while the area may contract or expand, the average out-turn per acre on well-lands varies only slightly, except in bad years when the ordinary revenue suspension and remission rules would come into operation.

But in Ajmer-Merwara, in the case certainly of burani and abi lands, and very largely also in the case of talabi land the actual out-turn is of far greater importance than the mere area cultivated. Assessments based on areas merely are not suited to these soils in Ajmer-Merwara, that is, if we desire to make the demand fit the actual conditions from time to time. But it would be better to avoid, if possible, having two different principles at work—one for the well lands regarding areas only, and another for the other soils basing the demand on the out-turns. Moreover, while the degrees of variation in out-turn on well lands are ordinarily very much milder, yet there are considerable variations, vide Appendix XII., whose figures indicate that even in years other than famine years the out-turn per acre has varied in the past (the Khasra entries being admitted to be correct expressions of actual facts) from nine maunds to over four-teen maunds.

55. Further, even if we did adopt this third method for the chahi lands' assessments, yet poor seasons will always come, and it will be necessary to estimate the character of the harvest, for the purpose of determining whether the full Settlement demand shall or shall not be exacted, and if

not, of fixing the amount of the abatement to be made.

But how is this to be done? It is, of course, possible for an estimate to be made in a rough-and-ready way, more or less by the eye, that the crop is so many annas of the normal. But what is to be the normal? The only reasonable standard of a normal must be the average out-turn per average acre. In times of stress, at any rate, we should have to refer the particular out-turn of the particular harvest on the well lands also to such a standard; we should have, in short, to estimate its character, in a manner precisely identical with that by which we propose to deal with the out-turns from other soils. In Ajmer-Merwara these seasons of stress are unfortunately comparatively frequent. And a standard having to be thus fixed in any case, it would be well to make as much use of it as possible. At any rate, the adoption of method three would not get us out of any difficulties in bad seasons: we should still be driven to apply some method akin to either four or five listed in para. 51.

56. Even at the sacrifice of some simplicity, therefore, I think that any one of methods 4, 5 and 6, though introducing a degree of complexity into the work of assessing, is better than method three. This complexity is, however, not really serious, and is, besides, a small matter as compared with the confidence thereby produced in the accuracy of the assessments. In fact, without this adjunct of standards of yields, it could never be claimed that our *chahi* assessments really observed the principle of proportioning the demand to the actual out-turn as apart from the area.

The only methods calculated to do this are methods 4, 5 and 6 of

para. 51.

57. Of these, however, method four must be rejected as not really workable in practice. In the first place, it is obviously easier to fix standard normal yields per acre of crop than per acre of soil. Standard yields per acre of soil must necessarily be very much more uncertain if not fictitious) than those per acre of crop. We can judge, with perfect accuracy on the available figures, what has been the average out-turn per acre or bigha on any kind of soil—chahi, for instance—of maize, for example, say 10 maunds, or of wheat or barley or any other specific crop.

But the matter is very different when we have to fix composite normal yields for all kinds of crops that may be grown on any one soil. Chahi soil will produce crops of all the usual kinds; the total chahi areas in any one village in any one harvest will have borne numerous crops in all sorts of combinations. These combinations must be expected to alter from time to time, perhaps from harvest to harvest. If they do, they must tend to throw any one composite standard out of relativity to actual conditions, especially as applied to individual villages. For instance, with a standard normal yield per acre of chahi soil of (say) 10 maunds all-round of produce from all crops usually grown on chahi soil, this standard would only be a fair one so long as an individual village continued to grow all sorts of crops on its chahi lands in about the same proportion as that which obtained in the figures from which the above standard was But suppose that in the individual harvest the village grow very little of other crops and put practically all its usual chahi area under eotton. The all-round yield of that harvest might fall relatively to some 7 or 8 maunds only per acre, and the application of the above standard would indicate ostensibly that the out-turn of the village was some 25 per cent. at least under the 'normal,' and that a remission of one-fourth of the full of revenue was needed, though as a matter of fact the village would, on the eontrary, probably be better off with its 7 to 8 maunds of the valuable cotton erop than it would have been with 10 maunds per aere of mixed, and on the whole less lucrative ordinary erops. Other similar anomalies would also be possible—to obviate which, under system four, and to approach a little nearer to accuracy, we should really require a number, indeed a large number, of standards fitted to suit all sorts of sets of

combinations of crops and their rotations.

On the other hand, as changes in the methods of cultivation of any individual crop in a tract occur but slowly, and take usually a long period to develop, the average out-turn per individual crop under averagely-prevailing conditions, whether favourable or unfavourable, remains fairly constant, and a standard per crop, sufficiently stable and reliable for all practical purposes, can be fixed and relied on for use over a period with tair confidence.

58. Secondly, a chahi rate per soil under method four must be

either one fixed for the whole year or one fixed for the harvest.

But if this rate is to be a harvest rate it has no superiority over a crop rate such as is contemplated in methods 5 or 6. On the contrary, while under the latter methods the rate is fixed with reference to definitely ascertained average out-turns of each individual crop, and is comparatively a "real" rate, this "soil" rate again represents only an attempt, more or less imperfect, at an all-round rate to fit varying combinations and permutations of all kinds of crops, and is necessarily at best a mere rough-and-ready rate.

On the other hand, if the rate be fixed for the whole year, another serious difficulty arises. For a certain varying proportion of chahi soil

is always double-cropped.

If the rate is fixed with reference to ckfasli land only, this double-cropped area escapes too lightly. If, on the other hand, as an annual chahi soil rate must necessarily be, the rate is fixed with reference to both ckfasli and dofasli factors, the result must be that this general all-round rate is really too severe for the ckfasli land, i.e., the bulk of the chahi soil, while it is again easier than-need be for the dofasli areas, for the rate could not be fixed to fit the dofasli areas alone.

Such a rate, fixed with reference to both *ckfusli* and *dofasli* areas, would of course tend to encourage double-cropping, but this might

obviously result in more harm than good.

This difficulty could, of course, be met by fixing an elfasli rate only, and then by taking on any land cropped a second time in the year the whole of this rate, or part of it, at the second harvest.

But here once more, equally as before, the question of standard normal yields would still come in, with even greater complexity if, as is possible, still further standards were required.

- 59. In short, this method would entail great labour and risks and recurring difficulty. The labour of fixing the numerous standards required would be enormous if, aiming at a high degree of accuracy, we had to fix them village by village. But this labour would, I think, ultimately go for nothing; for the system would prove so difficult of working that it would sooner or later either break down altogether or get hopelessly out of relation to actual facts: while in the meantime there would be always the very difficult problem for the assessing officers of making the right selection of the particular standard to be applied to the particular harvest, with possible wrong selections and consequent gross inequalities in the assessments,—with, in fact, results entirely nullifying the system's intentions.
- 60. There remain now methods 5 and 6; the only question now seems to me to be to choose between these two.

A soil rate as in method five is more on the lines of the system hitherto prevailing in Ajmer-Merwara. Crop rates on *chahi* soil here, on the other hand, will be a novelty. Either system, however, would work in Ajmer-Merwara for *chahi* lands. And if the methods of assessment of all other soils, talubi, abi and barani, had been definitely decided on settled lines not now open to discussion, and there was no point of having, if possible, one system that would suit all soils equally well instead of two or more systems, this fifth soil-rate method might well be adopted, for the above reason of a soil rate being at present familiar to the people.

61. But a crop-rate system of assessment has already long prevailed upon lauds under first-class tanks, and it is now proposed (vide paragraphs 28 and 29 of this report) to bring the lands of tanks of all classes and all abi soil also under the same simple system, somewhat modified only in the direction of making it more elastic. And barani cultivation also, I am persuaded, cannot be better dealt with in Ajmer-

Merwara than under this same crop-rate system.

Chahi cultivation can be equally well assessed under this same system of crop-rates as under the fifth or soil-rate method. A general allround crop-rate system in fact can, in my opinion, assess all four classes of soils equally well. From this point of view this crop-rate method has far superior merits to the soil-rate system. For, while the crop-rate method can be worked on all soils with, in general, one standard only for each crop and with the maximum of simplicity possible in the circumstances, the soil-rate system if applied to all soils would be very much more complicated in its working. Thus, in the first place, many crops can be, and are, according to the seasons, grown with or without irrigation on any of the four classes of soil. But the out-turn of the crop on each soil is not, in the average in the long run, the same. On *chahi* soil the average yield per acre is usually more than on talabi soil: on abi soil it is usually less again, and again less on barani soil. Under the soil-rateper-acre-per-crop method (the fifth, that is,) therefore we should have to fix a standard of normal yield for all the ordinary crops for each soil, that is, four standards for each crop. This means, to begin with, an increase of complexity at Settlement; but this would be as nothing to the extra labour at each harvest involved in the application of these fourfold standards for each crop.

- Moreover, the fixing of these soil standards for crops, on barani soil at any rate, would be a very difficult thing. In a year of favourable rainfall for instance, maize can be, and actually is at times, sown and matured without any artificial irrigation at all, and gives as heavy an outturn as it does in another harvest when grown with well or tank irrigation. So too, with cotton. But for the particular harvest in question, the land having received no irrigation from either well or tank, must be classed as A standard of yield, however, fixed for barani soil to suit barani soil. such cases would be hopelessly out of relation to the ordinary yield of crops on barani lands in ordinary years: while again a standard fixed with reference to the latter conditions would be needlessly light for the cases above indicated and would sacrifice revenue quite unnecessarily. Further standards even over and above the four already necessary per crop would thus seem to be required—which, apart from the great difficulty in fixing them, would thus again add further complexity to a system already sufficiently complex.
- 63. Method six of para. 51 is thus, I think, preferable, inasmuch as while it will assess chahi lands on the whole as well as method five, it has the undoubted advantage over the latter of bringing uniformity instead of diversity. Chahi lands can thus be assessed on the same method as tank lands. For I take it that there is no question of changing the present rates on first-class tanks from crop-rates to rates-per-acre-of-soil irrespective of the crops sown, as now obtain on second-class variable tanks—a step which, in my opinion, would be a retrograde one. On the contrary what is proposed to be done, and should be done, is that the crop-rate system should be extended to these second-class tanks also, and their (soil—

irrespective of crop) rates be given up. This being taken for granted, as I think it must be, to assess well-lands by rates per acre of soil (as under method five of para. 52), while assessing tank-lands by rates per crop or classes of crops, would mean retaining two systems—a course in which there is no practical advantage when both well-lands and tank-lands can be equally well assessed by one and the same identical method.

Uniformity so far as possible is, I think, obviously desirable in any case; here it is not only possible but brings the great advantage also of considerably simplifying the work, both at Settlement and thereafter at

each recurring assessment.

64. The sixth method stated in para. 51 is really identically the same system as that proposed for tank-lands (para. 28 of this report). The Government of India have themselves left it to the Chief Commissioner to decide whether well-lands shall be assessed under some fluctuating system similar to that proposed on talabi and abi cultivation (vide para. 45 of this report) or by some other.

For the reasons given in the foregoing paragraphs I personally strongly recommend the adoption of the same crop-rate system as on tanklands for the *chahi* lands, not merely because uniformity and simplicity in working are thereby secured, though these are themselves great practical advantages, but because this system seems to me to be the best suited for Ajmer-Merwara not only on *chahi* lands but on lands of all classes.

For a detailed description of the actual system proposed, please see paragraphs 86 et sequentia below.

#### BARANI CULTIVATION.

65. As regards the assessment of the dry cultivation, I put in first the following statements and statistics relating to barani soil and their cultivation in the Ajmer district:—

STATEMENT V.

Showing Barani Areas by Circles in District Ajmer for fifteen years.

	rage ce on	blatured. area.	56	3.87	3.18	3.40	2.16	1.86	87.6	1.58	1.37	5.33	1.60	2.73	2.75	1.81	1.04-	2.97	2.87	2.87
	Average Produce on	Sown area.	25	3.46	3.04	3.13	1.86	1.47	5.49	1.33	•10	4.95	င့်၊	5.34	2.16	1.52	.18	2.83	2.14	2.14
RAMSAR.		Produce.	57	94,593	76,083	77,090	42,677	31,091	78,506	31,451	2,327	11,8,007	6,325	55,259	57,127	38,779	1,769	56,353	7,70,439	51,363
R.	reg.	a berutsta	23	21,436	23,957	22,662	19,699	18,344	28,269	19,892	1,695	22,139	3,956	20,214	20,752	21,427	1,705	19,002	2,68,149	17,877
	.uwos	Total area	6]	27,347	25,043	24,618	22,910	23,119	31,486	23,681	23,976	23,826	27,606	23,641	26,458	25,546	10,014	19,896	3,59,230	23,949
	age ce on	Matnred area.	91	3.20	£7.5	2.73	1.50	1.50	1.86	1.51	1.63	4.85	4.00	5.00	1.92	1.88	1.88	2.67	2.53	2.53
	Average Produce on	Sown area.	20	30.6	2.20	2.43	56.	÷08	1.53	1-29	6	4.65	ŧ6.	1.55	1-41	86.	34.	2.41	1.73	1.73
RAJGARII.		Produce.	10	45,821	17,714	40,825	12,476	13,480	23,785	16,897	250	74,841	15,166	22,817	27,175	20,623	5,807	41,793	4,09,470	27,298
RA	ren.	a borutald	181	13,939	17.432	14,957	8,300	8,989	12,806	11,195	. 154	15,434	3,711	11,065	14,160	10,984	3,098	15,674	1,61,898	10,793
	*uMos	Total area	17	14,983	19,055	16,766	13,078	13,712	15,588	13,101	13,603	16,087	9,046	14,730	19,162	21,056	12,896	17,335	2,37,198	15,813
	age ce on	Matured area.	16	2.03	1.58	5.06	1 12	1.07	3.60	2.21	-83	3.76	2.20	17.5	1.35	3.60	1.02	3.47	2.25	2.23
	Average Produce on	Sown area.	15	1.93	1.39	1.66	÷8.	£9.	1.81	1.63	53	3.71	88-	2.65	1.00	3.45	15	3.45	1.90	1.90
Pushkar		Produce.	7	7,690	4,732	4,901	1,509	2,069	4,999	3,471	428	16,332	3,617	10,576	3,758	17,478	609	18,771	101340	6,756
Ā	rea.	beintald	22	3,806	2,098	2,382	1,708	1,932	1,926	1,569	518	4,349	1,449	3,905	2,793	4,849	009	5,408	40,192	2,679
	•ITWO2	fotal area	12	3,082	3,402	2,958	2,286	3,234	2,767	2,123	1,897	4,408	4,053	3,993	3,748	5,071	3,961	5,190	53,333	3,555
	age ce on	blatured area,	=	3.94	93.5	3.17	2.62	1.62	5.00	1.07	1.89	5.05	1.65	3.18	1.92	1.71	1:31	2.44	2.65	2.02
	Average Produce on	Sown area.	10	3.48	2.62	5-86	2.21	1.08	2.63	Sr.	-03	5.63	.13	5.00	1.51	1.37	<b>Q</b> 3	1.77	2.05	2.05
GANGWANA.		Produce.	6	71,934	509,09	53,990	46,245	20,505	60,958	8,114	589	112,065	3,695	51,945	20,126	27,698	136	33,720	5,81,322	38,755
GAN	reg.	Alatured a	8	18,275	21,156	17,058	18,327	12,624	21,046	7,587	312	18,929	2,277	16,349	15,154	16,170	104	13,838		13,280
	.avcs	Total area	7	20,656	23,152	18,889	20.043	19,049	22,007	16,808	17,788	10,809	20,140	19,500	19,297	20,141	5,089	19,000	2,83,437 1,99,206	18,896
	rage ice on	blatured area.	9	3.30	1.96	2.21	1.51	1.37	1.66	2 00	£8.	65-5	1.28	2.20	1.28	1.79	.81	3.85	2.43	2.43
	Average Produce on	Sown area.	3	2.70	1.83	2.31	-93	86.	1.25	1.46	90.	4.31	.53	1.97	-92	1.1.4	.13	3.63	1.66	1-66
AJMER.		Produce.	4	39,683	21,646	24,666	10,857	11,713	15,300	16,248	681	77,094	8,420	31,268	15,653	20,535	2,343	60,219	3,56,326	23,755
Ā	'UAL	os berntald	5	12,031	11,016	0,826	7,172	8,672	9,238	8,114	800	17,185	6,579	13,640	12,263	11, 189	2,903	15,656	1,46,181	9,766
	:0Mu	Total area:	67	14,715	11,835	11,151	11,734	11,944	12,230	11,096	12,045	17,871	15,891	15,842	16,537	17,985	16,589	16,583	2.14,018	14,270
	Years	(Fasli.)	1	1300	1361	1302	1303	1304	1305	1306	1307	1308	1309	1316	1311	1312	1313	1314	Total.	Average.

Noru,-The figures of this Statement are not absolutely correct as several Khasnas are missing or damaged.

STATEMENT VI.

Showing Barani Areas for the whole Tract, District Ajmer.

в.	Arerage Produce on	Matured area.	18		6.69.99.19.19.19.19.19.19.19.19.19.19.19.19	271
AND JAG	Arer	Sown area.	17.	:	28	1.01
Total Khalsa and Jagir,		Produce.	16	:	91,710 3,27,305 88,105 2,67,309 88,116 2,64,491 67,801 1,01,13 67,120 2,33,405 67,023 1,51,110 67,024 47,803 88,060 2,131,110 24,302 47,803 88,717 1,78,29 96,523 1,111 1,531 1,159 11,531 1,159 11,531 1,10,231 10,74274 29,16,088	1,91,106
Tor	Material	area.	15	:	91,710 98,105 73,105 15,921 16,705 16,705 16,705 11,531 11,531 11,531 11,531 11,531 11,531 11,531 11,531	71,618
	Total area	60wn.	7.7	:	1,03,141 1,06,006 97,142 92,142 92,258 92,258 1,05,007 1,05,007 1,07,870 1,07,870 1,07,870	10,00,024
	Average pro-	Matu- red area.	E	:	9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	2.70
		Sown a.rea.	121	:	2000 2000 2000 2000 2000 2000 2000 200	1.97
JAGIR.		Produce.	=	:	67,554 56,130 53,219 53,219 53,519 10,517 10,527 10	46, 179
F.	Vatured	alea, Produco.	2	:	23,519 21,223 67,554 23,519 21,516 56,180 23,620 21,231 53,293 21,108 18,213 52,871 23,810 21,811 10,382 23,811 6,390 10,382 23,811 6,390 10,382 23,811 6,390 10,382 23,811 6,390 10,382 23,811 6,390 10,382 23,811 6,390 10,382 23,811 6,390 10,382 23,811 6,390 10,382 23,811 6,390 10,382 23,811 2,631 11,2,77 11,311 2,63,415 6,07,101	17,223
	Total		6	:	29, 453 28, 510 29, 520 21, 108 21, 108 21, 24, 24 21, 24, 24, 24 21, 24, 24	23,511
	c pro-	Matur ed area.	×	:	2	2.72
	Averuge pro- duce in maunds on	Sown a rea.	1-	:	28111111111111111111111111111111111111	1 93
	F	rranie.	9		2,79,721 2,01,772 2,01,172 11,4161 81,885 1,83,518 4,215 3,08,518 1,72,865 1,72,865 1,72,865 1,72,865 1,72,865 1,72,865 1,72,865 1,72,865 1,72,865 1,73,865 1,73,865 1,73,865 1,73,865 1,73,865 1,73,865 1,73,865 1,73,865 1,73,865 1,73,865 1,73,87	1,17,026 + 12
a Onex.	Percen-	failed to eown area.	2	i	25.01.01.01.01.01.01.01.01.01.01.01.01.01.	65
Total Khalsa Omk,	4 anna	i.e., farled.		:	9,196 5,928 7,727 7,774 20,677 11,783 11,783 11,783 11,783 11,783 12,538 12,538 12,538 12,538 12,538 13,830 4,139 8,816	22,088
Tor	Matured	arca.	3	:	72, 487 76,559 61,786 56, 401 73, 286 48,357 3,170 17,972 65,173 65,112 65,112 65,112 8,410 8,410 8,116 8,116,929	54,395 +3
	Total	sown.	2	83,356	81,683 82,487 74,412 70,536 71,088 85,008 66,812 69,239 82,001 83,766 77,706 87,202 89,799 48,519 78,394	76,483 +5
	Year Fasil.		1	Area assessed	1,300 1,301 1,302 1,303 1,306 1,306 1,310 1,311 1,312 1,314 Total.	Average.

Norz-The figures of this Statement are not absolutely correct, as several Khascus are missing or demaged.

These figures which have had to be extracted from the Khasras have taken some time to compile; but the results are instructive.

It may first be remarked in passing that, after examining the figures of the dofasli areas collated for this period and also for a period of five recent more normal years. I find that ordinarily some three per cent. of the total barani area is double-cropped every year. This percentage is small, so that practically the whole barani areas may be considered as elfasli, cultivated only in the autumn harvest.

66. Considering now the figures for the Khalsa area only, we find in the first place that the total area sown (column 2 of Statement VI.) has itself fluctuated fairly largely. It has ordinarily been below the assessed area at last Settlement—in fact, only in one year out of the fifteen years has the actual sown area been above that assessed, and then only slightly so; on the other hand, in eight years out of the fifteen it has been more than ten per cent. below the Settlement area.

Again, taking the average of the actual sown area of the period, 76,483 acres, the actual yearly areas have varied from 37 per cent. below to 17 to 18 per cent. above that average, or, 1313 Fasli being excluded,

from 13 per cent. below to 18 per cent. above the average.

67. But these figures of total sown areas show nothing like the variations of the so-called *matured* areas and of the produce (columns 3 and 6 of Statement VI).

In the first place, the figures of columns 3 and 4 show that ordinarily of the total area sown, 29 per cent; or roughly 30 per cent., per annum, produces no crop. But there is no doubt that much of the remaining recorded " $b\hat{u}d$ "—ie, the so-called matured areas—have usually borne considerably less than full sixteen anna crops. This is evident from the figures in columns 6, 7 and 8 of Statement VI.

Secondly, in individual years the Ajmer-Merwara failed area shows violent variations (columns 4 and 5 of Statement VI.) There is no question here of waves or eyeles of progression and receding. On the contrary, the phenomena exhibited are those of violent and sudden

oscillations, which give no index ratio for individual years.

Thirdly, the figures of out-turn may now be examined. But here again the variations are very large, while no index ratio is indicated. The variations of the average out-turn per sown area are enormous. This area, however, may be dismissed from further consideration. But even on the so-called matured area, the variations in the out-turn of produce are still very large and constant in their irregularity. Even with the two definite famine years 1307 and 1313 Fashi omitted, the variations in the average produce per matured acre still range from 80 per cent. above to 40 per cent. below the average figure of produce per acre on the whole produce.

68. Further à priori one might expect that some relativity might be discovered existing between the degree of 'failed area' and the average rate of out-turn per acre: that is, that the latter would be consistently greater in years in which the recorded 'failed area' was low, and consistently less in years in which the 'failed area' was high. The figures, however, indicate for most years the actual reverse of this expectation. Thus in 1301 \*Pasli\* the percentage of the recorded 'failed' area was 7.2 per cent. and the average produce per acre was 2.75 maunds. Next year, however, in 1302 \*Fasli\*, while the nabûd area was 10.1 per cent. the average out-turn was over 3 maunds per acre. Similarly, while 1305 \*Fasli\*, shows 14 per cent. of 'failed area' and 2.50 maunds per matured acre of produce, 1310 \*Fasli\*, with a percentage of over 16 per cent. of 'failed area' shows a produce per acre of 2.64 maunds: and 1309 \*Fasli\* and 1311 \*Fasli\*, with the widely-diverging percentages of 78.5 per cent. and 23.6 per cent. of 'failed areas' show, however, the same average out-turn.

- Of course in the foregoing it is assumed that the figures of the Khasra have accurately recorded the true facts as regards the 'failed areas'—that areas really falling within this description have not, or not to any serious extent, escaped being recorded as such and not gone, to varying extents in different years, to swell the so-called matured area; that in fact the latter area does really represent only the areas on which crops have really matured. But this assumption may, I consider, be made safely For, except in the variable villages, the actual revenue demand year by year has not usually depended directly on the entries of acres and produce made in the patwaris' field books, and there has therefore hitherto been no motive to manipulate the entries to the undue benefit of the cultivators and to the disadvantage of the State; and in the variable villages, where the yearly barani assessments have depended on the current Khasra entries, the latter have or ought to have been subjected at each harvest to the special check of the Superior Revenue Official, the Revenue Extra Assistant Commissioner. At any rate there is nothing to throw any real direct suspicion on the figures even in these villages. In the remaining fixed demand villages the actual Khasra entries have been used to base the actual demand on, only in a few years of bad seasons when it has been necessary to propose suspensions of the current demand. In these years it is possible that the figures of areas and out-turn may have been understated by some patwari. Nevertheless for present purposes, as we are not proposing to fix any assessment for the future on these figures, these occasional understatements would not be serious: the general relativities of the several figures remain fairly well the same.
- 70. The above Statements V. and VI. therefore, being taken as they are, are based on at any rate the best material that we have available. In the first place, the conditions indicated are, I think, not the same as in the Bundelkhand tract of the United Provinces (vide para. 2 of letter No, 4713 N/1-38 A., dated the 9th October 1901, from the Secretary to the Board of Revenue, United Provinces, to the Government of the United Provinces, among the enclosures to the Government of India's letter now under reference). These Bundelkhand conditions may be sufficiently well dealt with by a "periodical re-assessment of village totals based on ealculations of the increase or decrease of established cultivation," the prescribed period of a quinquennium being the rule and intermediate revisions of the assessment the exception. But the problem in Ajmer-Merwara, on the contrary, is one of violent fluctuations from year to year, with mere irregularity as the only constant factor, to which the above Bundelkhand system offers no solution.
- 71. Secondly, the figures show that more cultivated area alone in Ajmer-Merwara means nothing apart from produce. Thus in 1305F, 85,068 acres sown gave 73,285 acres with a so-called matured crop: but in 1311, 85,202 acres, i.e., roughly the same sown area, gave 65,122 acres matured area only: and in 1312 Fasli 89,799 acres sown gave only 64,919 acres matured. In 1309, 83,766 acres sown gave only 17,972 matured, while in 1314, 78,394 acres sown gave 69,578 acres matured. Similarly, while in 1310 Fasli 65,173 matured acres gave 1,71,865 maunds of produce, in 1311 Fasli 65,122 matured acres gave only 1,32,839 maunds; and so on. In 1315 Fasli, last autumn, again, in the expectation of a good harvest, a very large area of barani crops was sown. The rainfall, however, ceased abruptly, and the crops on the whole barani areas proved practically a total failure, i.c., very large area, but no produce.
- 72. The final suggestion made by the Government of India in para. 7 (iii) of their letter is that: "...the circumstances of the dry assessments in Ajmer-Merwara might be met by a system of assessment under which the revenue should be fixed in the ordinary way, but at a figure somewhat higher than would be adopted under the ordinary rules for suspen-

sion and remission, and the collections for each harvest should be subject to such remissions from the total due as may be thought advisable for the tract or village concerned under a set of rules to be prepared by the Settlement Officer."

This suggestion of an assessment for dry cultivation still on a fixed basis, however, follows in the Government letter upon certain criticisms that have been levelled against the fluctuating system of assessments which has hitherto prevailed in certain villages in Ajmer, and upon a recommendation for its entire abolition made finally by the Hon'ble the officiating Chief Commissioner of Ajmer-Merwara, in his letter No. 4-C., dated the 1st January 1907. In consequence of that representation the Government of India state that they are content to accept, under certain conditions, a fixed assessment on the dry cultivation.

73. But I do not read the remarks of the Government of India on this question to be a final pronouncement (vide para. 9 of their letter), and in this view, I think that the whole question of the assessment of the dry

cultivation may still be considered to be an entirely open one.

For, in the first place I personally find myself unable to agree that the present variable system in Ajmer-Merwara has been a total failure. My reasons for this dissent are stated in a "Note on the present variable "system of Village Assessments in District Ajmer," which is attached to this report as Appendix III, to which I would request a reference. My views on this matter being as recorded in that Note, I do not think that the principle of a fluctuating assessment even on dry cultivation need or should be given up.

On the contrary, I am very strongly of opinion that it should be retained; that the eireumstances of the Ajmer-Merwara, as disclosed in preceding paragraphs of this report, are such as to call for a real fluctuating system of assessing dry cultivation even more forcibly than any other soil. I mean that a thoroughgoing fluctuating method of assessing barani lands is really the best suited of all for Ajmer-Merwara, and that there is no reason why such a system, if its details and procedure are properly devised, should not work without any more difficulty than is

ordinarily incidental to such assessments.

74. We may first consider the system suggested in paragraph 72 above.

With such a system we should of course take a standard area, and with reference to this fix a standard revenue demand. This standard area would necessarily be a high one, in fact a maximum, representing the area of some good year, or the average of the areas of the better years of a period. This standard area also would of course be fixed on the figures of matured areas and represent a standard matured area inasmuch as, for considerations already indicated in preceding paragraphs, what counts here, so far as areas are concerned, is not mere area, but the acreage that matures We should then provide by rules for remitting portions of this standard revenue every year in which the circumstances of the barant cultivation were adjudged to be less favourable than those of the standard year.

75. The rules, however, for determining this portion to be remitted,

that is, the assessment rules, might take several forms.

Thus we might prescribe that the relativity of the particular harvest to the conditions of the standard area should be determined on the basis of areas alone—matured areas of course but still areas—'matured' being, say, defined as that which, in accordance with the hitherto prevailing practice in Ajmer-Merwara (cf. rule 16 (2) of the Irrigation Rules on page 438 of Volume H to L, Ajmer Regulations) gives a crop which is not less than a four-anna crop.

This would be the simplest procedure possible under this system.

The rest of the process would also be simple: all that would be required would be either a simple rule similar to that now existing under the

present variable village system, viz., rule 20 on page 521 of the Volume H to L, Ajmer Regulations, or one embodying for immediate remissions the sliding scale of abatements of the demand given in the district's ordinary rules for the suspensions and remissions of revenue.

76. No less procedure than this just sketched could, I think, be devised: it represents a minimum for what is required. And in other portions of India, certainly, the relativity of crop out-turn to the 'normal' is judged, without precise and detailed reference to fixed standards of average crop yields, by a summary estimate made by the eye and the observer's general impressions, and the crop is said, straight off, to be a sixanna or an eight-anna, or a ten, or twelve-anna crop, or whatever it may be, without further testing. And there is no doubt that an observant eye, after some training, can be trusted to suggest estimates of the out-turn of crops, on particular definite areas, which would be found to be reasonably close to the actual out-turn tested by actual weighment and comparison.

But elsewhere these crop estimates have ordinarily to be made by this summary eye method only occasionally; they are not required to be

made at each harvest: they are the exception rather than the rule.

In Ajmer-Merwara, on the other hand, if the precarious uncertain weather conditions of the past are to be assumed as likely to recur in the future, and we are bound to make this assumption, the years whose conditions will reasonably closely approximate to those from which our standard area (para. 74) is deduced will be comparatively few, while the years below our standard will be many. Remissions of portion of the standard revenue on dry cultivation will certainly be the rule and not the exception. Not only this, but we could not really confine our crop estimating to these years only in which remissions are given. We must, on the contrary, continue to make our crop-estimates invariably in every year. good, bad and indifferent alike: for it would not be until we had gone through the same process as in any other year that we could say that the crop is a 12, 13, 14, 15 or 16-anna crop, or that the year is a good one and no abatement from the standard revenue is needed.

Conditions in Ajmer-Merwara are thus reversed. The determination of the revenue-paying character of the season is required to be made every

year at each harvest.

77. As, however, this process of crop-estimating must thus be a regular rule at every harvest on the barani lands, and much greater accuracy of results can be obtained without any material increase of

labour. I think we ought to try to make this process more exact.

This can be done by making the assessment rules provide for fixing definite standards of the normal yields per crop representing the average amount of out-turn ordinarily produced per acre of each crop, and by then comparing the estimated maundage out-turn of the actual crop under observation with the standard out-turn on the area of that crop as calculated by applying the normal yield figure to that area. The ratio thus obtained could then be expressed in terms of annas of the rupee, if necessary, and the remission calculated according to the limits set by any scale for remissions that we may devise (vide paragraph 7 (i) of the Government of India's letter), or, the actual revenue to be demanded could be taken as that fraction of the standard demand represented by the actual crop out-turn in maunds to the standard total yield. For example:—

A plot of 4 acres is sown with wheat, the normal yield per matured

acre of which is, say, 10 maunds.

The actual crop out-turn on the four acres is estimated and recorded in the Khasra to be 30 maunds only.

The standard total yield in maunds is  $4 \times 10 = 40$  maunds, which represent a 16-anna normal out-turn on this area of four acres.

The actual out-turn being 30 maunds, its ratio to the 'normal' expressed in terms of annas of the rupce, is 30: 40:: 16, that

is, it is a twelve-anna crop: and if we have a scale in which a crop of twelve annas or more of the normal is given no remission, this area must pay the full unabated revenue.

Or, if we have no such scale with these definite limits, but the sanctioned method is that the demand to be made in each case is to be determined by the proportion of the retual out-turn (x) to the standard total yield (y), then the demand (D) to the standard revenue (R) is represented by the following, D— $\frac{x}{x}$  R.

78. The procedure thus sketched in the last paragraph, which seems at first sight perhaps to complicate matters by introducing an extra step between estimating the cut-turn in maunds of the actual crop and expressing it in annas of the rupee to the normal, on the contrary (1) really very much simplifies matters in the end when the total village dry assessment has to be worked out, and (2) ordinarily guarantees much greater accuracy in this figure as compared with the procedure stated in para. 75.

For, while by the process of para. 75 the crop on each plot can of course be at once roughly and readily estimated at so many annas to the rupce easily enough, what of similarly estimating the total dry croppage

in the aggregate for the whole village?

For the total dry assessment for the village as a whole has in any case to be worked out.

This, under the procedure of para. 75 can only be done in either of

two ways.

First, by working out the demand, as it were, for each field separately, and then adding up these separate field demands:—e.g., field No. 65 has a crop estimated at a ten-anna crop; the proportional demand on it will be (say) 12 annas of the standard revenue (Rs. 4-0-0), i.e., Rs. 3-0-0, or <sup>10</sup>0 ths of Rs. 4-0-0, i.e., Rs. 2-8-0.

Field No. 74 has a crop estimated at 7 annas, and its proportional demand will be (say) eight annas of the standard revenue (Rs. 2-0-0): i.e., Re. 1-0-0; or 75ths of Rs. 2-0-0, i.e., Re. 0-14-0, and so on, the village total being thus, Rs. 3-0-0 plus Rs. 1-0-0 (or Rs. 2-8-0 plus Re. 0-14-0), plus plus plus for all the individual plots; or

Secondly by making a rough-and-ready estimate for the village as a

whole from the general run of the individual field estimates.

But the first way, though logically sound in providing a means whereby the relief granted may be, at the distribution of the total demand announced for the village as a whole of over the individual Khatas, spread with the maximum of equity over the actual owners of the fields, so that the owner whose field bears hardly half a normal crop pays at most only in the proportion of half the standard demand, while another owner whose field bore a 12 or 16-anna erop pays up to the full standard demand, yet would involve, before the actual village total dry assessment can be worked out, an immense amount of labour-certainly in the ease of some of the huge villages of Ajmer-Merwara. It is really a close approach to an out and out ryotwari system. But if such a ryotwari system were to be contemplated we ought to go still further, I think, and fix standard average yields for all crops, on which our rates would be based, and then determine the actual out-turn character of field by direct reference to these standards, as accurately as possible, and not leave this to be done loosely by a mere eye estimate. This addition would make the process of assessing still more laborious, but would be really necessary for accuracy's sake.

This method, however, though it may perhaps be worked up to in the future if need appears, I cannot recommend for immediate adoption. I am already proposing in this report much that will be new, and it will be well not to advance too far all at once, but to allow the revenue staff and the villagers time to settle down first to the idea of a fluctuating system of assessments all round, and to grow accustomed to its working on a simpler basis. We should be content, I think, for the present with a system that will proportion the total demand for the village as a whole to the total

crop out-turn of the village, as elosely as possible, that is, get the total assessment for the village fairly right to start with, and that will work this out with the maximum of speed and simplicity.

80. And the second way referred to in para. 78 of arriving at the total dry assessment for the village as a whole, even if after all it was not merely sheer guesswork, would give at any rate only a very general estimate. The individual barani fields growing crops may amount to several thousands in a fairly large village. Some will be recorded as 5 annas, some as 8, some as 11, some as 7, some as 10, some as 6, some as 13, some as 9, some as 15, some as 12 and some as 16 annas. But can anyone, without further aid, however conscientious may be his desire to adjudge correctly, make any really reliable total estimate of the general crop out-turn over these several thousands of fields, as if they were one, over the village as a whole? The estimate might, or might not, be reasonably approximately correct, but this would represent highwater mark of this method, and in many cases the estimate might be seriously incorrect.

81. By the procedure indicated in para. 77, on the other hand, the working out of the village total dry assessment is comparatively a very quick and simple matter, which may further make the additional claim of

a high degree of accuracy.

Thus, the estimated out-turn in maunds of each field is already recorded in the Khasra—this would still suffice; no time should be spent in recording, for the present at any rate, the 'anna-age' of any individual field. We need only consider the total of all areas under each crop and then the totals of all crops in the aggregate. The crops grown on unirrigated soil at any one harvest in any one village are not numerous, less than half-a-dozen usually. The girdnwari being over, the patwari would make a short abstract of its entries according to crops: under each crop he would add up the area and recorded out-turn of each field bearing that crop, thus arriving at the village totals of area and out-turn of each crop.

These are, let us say, 50 acres of jowar with 100 maunds of produce, 40 acres of bajra with 100 maunds, and 20 acres of mung, moth and kulath

with 30 a aunds.

All that then remains for the assessing officer to do is to apply the standard average yields—for iowar say  $2\frac{1}{2}$  maunds per acre, to these 50 acres of jowar obtaining a standard total yield of 125 maunds; for bain a 3 maunds to the 40 acres, obtaining 120 maunds; and for the mung, moth and kulath, 2 maunds per acre to the 20, obtaining 40 acres, and with the total of these figures (viz., 125, 120, 40 = 285 maunds) to compare the total aggregate of the actual out-turn, viz., 100, 100, 30 = 230 maunds. The result then emerges automatically as  $\frac{2}{3}\frac{2}{3}\frac{6}{5}$ ths, of the normal, or, if desired to be so expressed, thirteen annas in the rupee. The total dry assessment for the village as a whole is then practically complete, and is correct.

There is, at any rate, very much more certainty in this method than in the undisquised guess-work method of the preceding paragraph, while it is really much simpler than the quasi ryotwari system of paragraphs 78 and 79. Moreover, not less than that system, it still provides readily available all the material needed for making a field-to-field, or holding-to-holding distribution of the total village dry assessment, if this is necessary. The entries of the out-turn (x) against each field is already entered in the Khasra, and all that is required is to apply the standard average yield to the area of the field or holding, obtaining (y) and then to apply the ratio x:y, or the fraction  $\frac{x}{y}$ , to the resultant of the field's area multiplied by the fullrate. But in the meantime it saves much labour and time from being needlessly spent when this distribution is not required.

82. Thus, to summarise the position now, it comes to this, I think, that whatever system we have for the dry cultivation other than an ordinary rigid demand based on mere areas, irrespective of out-turn, reversion

to which is not to be contemplated, we must accept the necessity (1) of having to examine at every harvest the current conditions of the dry cultivation and to compare them with our standards, whatever these may be, and (2) of having to fix, and to use at every harvest, standards of average normal yields, so as to arrive at as accurate an idea as possible of the relativity of the actual out-turn to standard conditions.

But this being so, all that is further required to work out a suitable, equitable demand for each harvest can now be accomplished in a much more simple, direct, and effective way, I think, than by a system involving

a standard revenue accompanied by remissions.

That is, why not have a fixed barani rate, determined with reference to the average out-turns of the crops on the barani soil, apply this to the actual matured or assessable area recorded for the harvest, obtaining (x), and take as the demand simply and at once that proportion of (x) which is represented by the ratio of the actual recorded out-turn on the recorded matured or assessable area to the standard total produce on that area? E.g., the rate is 8 annas per aere: the area is 50 acres: actual out-turn is 100 maunds. The standard average yield per aere is 2½ maunds, and the standard total yield is 125 maunds. Then 50 times 8 annas (Rs. 25) is the full maximum revenue possible if each of the 50 acres gave a fully-matured 16-anna crop according to the standard average yield. The actual demand to be assessed is, however,  $\frac{100}{125}$  times 25 = Rs. 20. The above process is very simple, direct and very quiek, and goes as close, I think, as any system that it seems possible to devise, to truly proportioning the demand to the actual out-turn.

Why fetter ourselves, then, at all with a standard revenue and remissions? This would not only add a eumbrous complication in the system, but impose an anomaly on the system for which I see no necessity.

84. For our declared profession being in principle to take only a certain portion of the actual out-turn and in practice to work up to that principle as closely as practical mechanical difficulties will allow, the fact of a remission being necessary at all means strictly that the sum we have to remit was never really due at all, and could not therefore have been ever equitably demanded. A system that requires such remissions therefore reduces us to the solemn farce of magnanimously remitting what we are, by the act of remission, admitting that we were not entitled to.

The simple system indicated, however, avoids this: it dispenses also with the necessity of much office work in drawing up remission statements and in correspondence to obtain sanctions and the like it can work automatically and save all concerned much time as compared with a system based on a standard demand. Lastly, there is no necessity to fix standard areas; we can go simply by the actual area from year to year.

85. In short, the simple system outlined in para 83 seems to me in every way preferable to that suggested in para. 72 or to any modified fixed system, and I strongly urge its adoption. It will be comparatively simple to work, but, more important still, it will, I think, be more effective than the others disensed in dealing successfully with dry cultivation in Ajmer-Merwara.

Further, it has incidentally the great additional merit of allowing the dry cultivation to be assessed by exactly the same method as the *talabi*, *abi* and *chahi* areas, thus avoiding the practical disadvantages of having more than one system of assessment at work.

For the system now proposed for the dry cultivation is exactly the same as that which is proposed for all talabi and abi areas and also for

chahi areas.

#### THE SYSTEM PROPOSED.

86. The system of assessment which I wish to propose for appli-

cation to cultivation of all four soils throughout the tract may now be

briefly stated.

I propose, first, to take as the basis the essential method of the simple system now prevailing upon the Ajmer-Merwara first-class tanks, and upon canal-irrigated lands elsewhere, and to assess by fixed crop-

rates applied to the actual areas of the harvest on all soils.

But I propose to modify the above by (a) providing that in future the areas to be assessed shall be, not the total sown areas, but the areas that give a crop, (b) fixing for each crop, irrespective of the soil on which it is sown, or of the source from which it is irrigated, an all-round standard average yield of produce per "matured" acre—so that, on the standard furnished it can be easily and directly seen whether a crop area is fully matured according to that standard or, if not fully matured, what is its degree of maturity with reference thereto, (c) fixing the asse-sment rates in relation to these "standard average yields," (d) providing that the full revenue given by applying the applicable assessment rates to the actual assessable areas at any harvest, shall be taken only when their total actual out-turn is in the aggregate not less than the aggregate total "standard" out-turn indicated by the standard average yield over the whole aggregate assessable area, and that if the aggregate actual out-turn is less than this the revenue demand shall be proportionately lower than the full possible revenue. Thus, to take a brief simple example:—

A village shows for the *Kharif* harvest a total area of 50 acres of, say, maize. The standard average yield per matured acres of maize is,

say, ten maunds; the revenue rate is Rs. 3.

If the actual recorded out-turn for the 50 maunds is then 500 acres, the demand will then be the full revenue, viz: 50 x Rs. 3 = Rs. 150.

But say that the actual out-turn is only 400 maunds; then the actual

demand will be  $\frac{400}{500}$  or  $\frac{4}{5}$ ths of Rs. 150, i.e., Rs. 120 only.

Secondly, I propose that the rates be simply rates per classes of crops irrespective of soils, not rates per classes of soil. I propose to group all crops on all soils into three classes according to their average relative values and fix an acreage rate for each class of crop.

87. The above really states in essence the whole system proposed.

It is, however, more fully described in detail in a draft set of rules which I have prepared provisionally for regulating the assessments under it, and which are attached to this report as Appendix IV., to which I would request a reference.

But there are several matters connected with the proposed system to which attention requires to be drawn, or which need explanation. These are (1) the question of the "assessable" and the so-called "matured" area and of the "standard average yields," (2) the question of the character of the rates, (3) the question of the scale and standard for fixing the actual demand in relation to the full possible revenue given by the rates applied to the whole aggregate assessable area when the latter is only partially 'matured,' i.e., while the out-turns are below the 'normal,' and (4) the question of the method of fixing the actual total assessment.

88. First, as regards the "assessable" and "matured" area. Hitherto in Ajmer-Merwara under the rules in force the crop areas have been recorded under two classes: (a) nabûd, that is, those which give no grain out-turn at all, and (b) bûd, all remaining areas. There has been no attempt to specify these bûd areas further, which are thus in the aggregate for any one crop a congeries of component areas of varying degrees of maturity, in which there is no indication of these varying degrees, so that it is practically impossible to deduce from the only actual information available any exact standard of ordinary average real "failure" for each crop or for each soil, whereby to adjust any Ajmer-Merwara "bûd," or so-called matured, area of the past up to the full standard of a 16-anna fully-matured area.

This question of fully-matured and partially-matured areas with the

other question depending on it, viz., those of standard of yields and assessment rates, is, however, discussed at some length in paragraphs 139 to 144 of this report in connection with the question of "crop yields and standards of yields." For the considerations there given, I propose, first, to take as standards of yields not "standard normal yields" fixed with reference to fully-matured areas but "standard average yields" representing the averages over large areas and over a period (vide para. 142) of the actual out-turns on the above "bûd" areas in the past.

Second, it follows that the actual assessment rates that will be proposed have reference to these "standard average yields," and will not be higher rates having reference to the higher standard normal yields.

Thirdly, I propose therefore to take the above " $b\hat{u}d$ " areas simply, exactly as at present recorded, as the "assessable" areas for the assessments under the system proposed. The patwari as hitherto will, under the Girdawar's check, continue to record a field which gives no grain outturn at all as " $nab\hat{u}d$ ," but to record every field with anything over that as " $b\hat{u}d$ ," and to estimate and record its produce out-turn in maunds just as at present. These " $b\hat{u}d$ " areas with their out-turns will then come straight from the Khasra on to the assessing Khataunis (vide rule 13 of the proposed draft rules of Appendix IV.). The system thus introduces so far no complicating novelty for the patwari.

The main considerations for these conclusions are, as indicated in the paragraphs 139 to 144 referred to, of course the want of information on which to work out from the "bûd" areas recorded in the past the true "fully-matured" areas, and the difficulty in fixing rates with reference to these and the "standard normal yields." I may say here that in my opinion all the practical advantages lie, as circumstances are at present in Ajmer-Merwara, with the proposed method of taking the proposed "standard average yields" and rates based on the "bad" areas. These are easily and certainly fixed; and they are based on actual facts (as in the Khasra against every field which is recorded as 'bad' has been entered its estimated produce in maunds) representing the averages of actual out-turns over a number of years in the past over large areas, and can thus be relied on with some confidence. The material for fixing "standard normal yields," on the other hand, is not so certain, while for fixing rates to suit these "standard normal yields" the materials are even more scanty And even if we fixed some such rates, yet owing to the and uncertain. want of the true "matured areas" we should not be able to make any proper estimate of what revenue these rates would bring in.

Further, the circumstances of Ajmer-Merwara are such that the average run of crop areas in any harvest are not up to the 16-anna fullymatured standard. With the higher rates, therefore, involved by the standard normal yields on 16-anna fully-matured areas, the actual revenue demands would regularly be very much below the ostensible full revenue given by the rates applied to the actual areas—our rates and standards would, in fact, appear always to be much too heavy for the actual facts, and if we obviate this to some extent by first manipulating the areas before applying the rates—c.g., by counting say 5 partially-matured acres as 4 fully-matured acres, yet this would introduce practical difficulties for all concerned—and finally these high "standard normal yields" and high rates, and the seemingly high and seldom-ceasing abatements shown on the assessing statements, would convey an impression of undue severity in the system of assessment, an impression which, however false, might none the less unfavourably prejudice the cultivator. The "standard average yields" and lower rate method, on the other hand, though possibly not so exact in theory, is much more free from such practical difficulties and is simpler to work: and it will reduce the number of novelties being introduced all at once into Ajmer-Merwara, while it will, I think, suit its conditions perfectly well enough, until at the next revision, when every one; villagers and staff, have grown accustomed to a complete fluctuating

crop-rate system such as now proposed, more exact standards can be introduced.

90. By the second question mentioned in para 87 I mean the question as to whether these should be rates per soil or rates per crop

irrespective of soil.

This question has, however, been already referred to in paras. 61 to 64 in connection with the *chahi* assessments, and for the reasons given there I propose without hesitation to assess by a simple set of rates per crops irrespective of soil. The question is, however, raised here in view of the possible objection that, as *chahi* soil ordinarily produces more than *talabi* soil, and the yields of a crop sown on *abi* or *barani* soil is usually less than when sown on *chahi* or *talabi*, an all-round rate per crop irrespective of soil would either be too high for the *talabi* or the *abi* or *barani* soil or too low for the *chahi* soil, or both too high and too low at one and the same time.

So far as abi or barani soils are concerned, however, the lower outturn on these is allowed for by the standard average yield factor. According to the degree by which the actual out-turn falls below this standard, protanto the actual demand falls below the revenue given by applying the crop rate to the crop area. The question really concerns only the chahi and talabi soils therefore.

91. One solution of this could be found—without setting up separate standards and rates for chahi and talabi soils—in fixing the rates for irrigated crops with reference to talabi soils alone, and then adding a varying amount to those rates for similar crops grown on chahi soil. This would, however, first increase the labour of preparing the assessing Khataunis and the work of assessment; while I do not think that it would do as an all-round working method, as in many seasons the chahi average out-turn would not be greater than the talabi in any particular village. A preferable way would be to use the device of imposing a small additional rate—called elsewhere a "well advantage" rate—on each well: that is, a few annas on each acre actually irrigated from it, irrespective of other considerations.

I had, in fact, for long thought of proposing to use some such device as this, and, subject to the Hon'ble the Chief Commissioner's sanction, I will, in fixing the rates to be applied to individual villages, make some such differentiation in the rates to be applied to the chali and talabi soils wherever I think that the village cannot be adequately assessed otherwise without this treatment; but as a general method, I deprecate it. The standard crop rates proposed in this report are, it is true, based on the average values of the average out-turns of both chahi and talabi soils combined together, but these rates can be varied to suit the circumstances sufficiently well of many individual villages—that is, in a village where the first-class crops are all irrigated from wells, the crop rate can be suitably enhanced: in another village where tank irrigation predominates and the chahi area is small it can be slightly reduced, while in other villages there is, under the fluctuating system proposed, always the standard average yield working to correct matters, so far as the total assessments are concerned. That is to say, the chahi area is perhaps producing more per acre, and the talabi soil less, on the average, than the standard average yield, though both are paying the same crop rate. in this case, as in most, if the talabi out-turn is depressing the actual average out-turn to any extent, and this depression would, if considered alone cause a reduced demand, on the other hand the higher chahi out-turn is operating to counteract this depressing influence, and by pulling this actual general average up again to produce on the combined areas, by the one rate approximately enough, the same total revenue at all events as would be produced by a system with a separate rate and a separate out-turn standard on each of the two soils.

<sup>92,</sup> And, after all, is this absolute detailed accuracy in distinguish-

ing between chahi and talabi soils really practically necessary—especially when to provide for it much greater and recurring complexity would be introduced in the third provide the state of the state

introduced into the system and the work of assessment?

We have, however, to consider this equally important point—the actual working of the system proposed. From this point of view the simpler system proposed is much preferable, and its all-round greater simplicity and case of working outweights the slight loss of some degree of greater accuracy possible under the much more claborate systems.

The system proposed groups and assesses all irrigated crops together as one simple class, irrespective of the source of irrigation by a single rate—an immense help and saving of labour in working harvest by harvest an all-round fluctuating set of assessments on a large number of villages.

93. As regards the third question stated in para. 87, I personally advocate the  $D = \frac{x}{v}R$  method indicated in para. 77; and the proposed draft

rules of Appendix IV., therefore, prescribe this method only.

The Government of India have, for talabi and abi soils, in para. 7 (i) of their letter 417-42-2 of 26th February 1907, suggested the other more usual method. But this obviously, unless we have a very large number of gradations in the seale, gives results which are approximate only, without really facilitating work as compared with the method advocated. Thus, under this graduated scale system we have—in addition to working out the standard of total yield on the area in question (y) of para 77, and then applying to it the actual out-turn (x)—to further translate this into annas of the rupec and then to compare it with the scale, to find the limits within which it falls before we get the figure on which to calculate the actual demand. But why not apply  $\frac{x}{y}$  at once, without this extra trouble?

The former method  $(D = \frac{x}{y}R)$  is at once not only more simple, but also proportions the demand to the actual out-turn exactly, while with the other method the proportionment is only approximate.

94. In regard to the fourth question stated in para. 87, I propose following what I have said in para. 81, that, as an essential part of the system proposed, the assessment on a village shall be determined for the village as a whole on its total figures. The several assessable crop-areas and the actual out-turn of each crop produced at any one harvest will be first arranged in their appropriate columns of the assessing Khatauni under the crop-class to which it belongs, and for each crop-class the aggregate total assessable area and actual out-turns of all crops in that class will be totalled. The total standard yield for each crop so entered will also then be calculated by applying the standard average yield to the actual assessable area of the crop, and also entered and totalled for the whole class. Similarly for the village as a whole the several aggregate actual out-turns of all the crop classes will be totalled to give the aggregate total (x) for the whole village and compared with the aggregate total of the total standard yields (y) of all the crop classes for the whole village.

It is only when this process is complete that I propose that it should be determined whether the actual demand for the village is to be the full possible revenue given by the crop-class rates on the total assessable area, or whether it is to be something less than that full possible revenue. I mean that if (x) is equal to (y) the full revenue on all crop-classes should be taken, even though in one, or more, of the crop-classes the aggregate actual out-turn of all crops in it may be less than the aggregate total standard yields. Only when (x) is less then (y) should an abatement from the full revenue possible be made, and this abatement may be made

in respect of the erop-class only in which the deficiency occurs.

95. Thus, in the case of Example I of Rule 6 of the draft Rules in Appendix IV., I propose that the actual demand on the village be the full possible revenue given by the assessable areas and the rates, viz., Rs. 212-8-0, and that the assessment on each crop-class be the fullest

possible one, although the out-turn under Class I is below the average, on the ground that the deficiency here is made up by the higher out-turns on the other two classes.

I mean, that in such a case it should not be-

			Total	•••	182	8	0
I. II. III.	‡88 ( 10 100	50 ×	3/0/0) 1/4/0 0/8/0	•••	Rs. 120 12 50	0 8	0 0

But in the case of Example 2 of that Rule 6, the total aggregate of the actual out-turn is less than the aggregate standard yields for the village as a whole. Here a demand less than the fullest possible revenue of Rs. 212-8-0 should be assessed; and the necessary abatement should be made for the class in which the deficiency of out-turn below the standard occurs. Thus, in this case, the assessment will be—

96. That is, we should not look simply to the figures of any one crop-class by itself alone and assess it separately without first considering the character of the total out-turn of the village as a whole.

Still less, I think, need we consider each crop separately—that is, even the aggregate areas and out-turns for the whole of the one crop. In one crop-class there might be half-a-dozen separate crops, the aggregate figures of two of which were below standard, two above it, and two equal to it. We should not, however, work out separate demands for each of these. The extra labour involved is not unnecessary. It is quite sufficient, in order to give an equitable assessment, to consider the crop-class as a whole.

Still less, therefore, can we contemplate assessing on the out-turns of individual fields. This would introduce immense claboration, and cause the process of assessment to consume enormous time and labour. has been already said in paragraph 79 applies here also. From the point of view of the individual cultivator, no doubt, an assessment made field by field would ensure that the assessed demand from each cultivator was in full measure in exact proportion to his own out-turn. We cannot, however, go so far as this at present. To a large extent as regards individual fields, the deficiency of out-turn on one field will be adjusted by excess on another. We should be content, for the present at any rate, to forego all the higher refinements that are not absolutely indispensable for assessing correctly the village as a whole. The system proposed will, I think, assess the village as a whole correctly, proportioning its demand to its actual out-turn, and this seems to me to be as far as it is safe to go for the time being.

97. For this reason, the course suggested by the Government of India at the end of paragraph 7 (i) of their letter, viz., that the patwaris should record the character of the crop on each field as being either nil or ½ or more, of a normal crop, is not now necessary. The actual maundage of the produce of each field, as estimated, is already recorded and will continue to be so recorded, and this maundage entry is sufficient for all purposes that are likely to arise. It is certainly sufficient for our actual work of assessing, and, if the circumstances of the individual field have ever to be considered, e.g., in distributing the total village

assessment over the individual cultivators by the relative out-turns of the fields, this recorded maundage entry has only to be referred to the figure given by the field's area multiplied by the "standard average yield" of the crop to indicate the ratio of out turn of the field to the normal. And as regards the remaining portion of their recommendation, viz, that the rate applied should be reduced to  $\frac{1}{2}$  for crops of  $\frac{1}{2}$  the normal or less and to nothing for crops of  $\frac{1}{4}$  or less, the spirit of this, the system proposed, will give due effect to, in the manner already indicated (paragraph 93).

98. I may here explain how it is proposed to group up the crops grown in the tract.

The crop classes, and rates.

In Class I. are included:-

Sugarcane, Melons, Lucerne Grass, Red Pepper, Tobacco, Garden Produce and Roses; Maize, Cotton, Wheat, Barley, Rice, Barley and Wheat, Wheat amd Gram, Indigo, Poppy, Vegetables, Linsecd, certain spices, such as Zira, Dhania and Methi, and Lahson and Singhara.

In Class II. are included:-

Gram, Bejhar, Mustard, Carrots, Hemp and a few other miscellaneous crops occasionally grown.

In Class III. are included :-

Jowar, Bajra, Mung, Moth, Kangni, Til, Gwar, Chanoula, Marua (Mandua), Kulath and Urd.

These classes have not been arbitrarily selected. On the contrary, the grouping has been made from the statement of produce and net assets after the valuations of all the crops shown in the Khasra Jinswaras had been worked out. In this statement (given as Appendix XV. to this report) the average value per acre of each crop was worked out; and it was on the comparison of these average values that the crops were then grouped into the three classes indicated, crops of like value being, within certain limits, classed with like.

Class I. contains the crops of both harvests that are ordinarily grown by irrigation: Class III. the crops grown ordinarily on barani soil without irrigation, in the kharif harvest: and Class II. certain crops grown on abi or barani soils mainly in the rabi harvest, with some

miscellancous crops.

Thus the areas under crops of Class I. correspond to some extent with the *Chahi* and *talabi* areas: those under Class II. with the *abi* areas, and those under Class III. with the *barani* soil. The correspondence

i-, however, approximate only.

These three classes now proposed are sufficient for all practical purposes. They cannot, I consider, be reduced to two profitably: On the other hand, the first seven crops enumerated in Class I., viz., Sugarcane, Melons, Lucerne grass, Red pepper, Tobacco, Garden Produce and Roses, might have been grouped into a sub-class by themselves of high-value crops, apart from the ordinary food crops and cotton and poppy. And indeed I propose in respect of some of these, in some of the circles, to enhance the ordinary first-class crop rate. But for the present these are included with the other crops of the first group in order to avoid having four classes of crops.

The present three classes contain all the crops at present known to be ordinarily grown in Ajmer-Merwara. If in the future any new crop is taken under cultivation it can be given a place in one or other of these three crop classes, the collector determining its actual class by estimating

its relative value to the other crops.

99. The actual rates for assessement that are proposed are set forth later on, after certain other matters connected with the working out of the half net assets have been dealt with.

But we may now recapitulate the several points of the system of assessment proposed. These are:—

- (1) All soils will come under the same one fluctuating system: every village (except any exceptional ones given a fixed assessment) will be assessed at each harvest.
- (2) The crops are grouped into three classes according to their value, and all lands are assessed simply at an acreage rate according to the class of crops grown, irrespective of class of soil and the source of irrigation.
- .(3) The revenue is determined simply by applying the crop rate to the assessable crop area.
  - (4) The "assessable" crop area is the local bûd area with which the patwari, villagers and officials are already familiar.
- (5) The usual average out-turn per acre of ordinary bûd area for each and every crop has been ascertained and tabulated as "standard average yields."
  - These "standard average yields," applied to the assessable crop areas, enable it to be seen at once how the actual out-turn of each assessable crop area, or group of crop areas, stands to the usual average out-turns per acre of ordinary bûd areas, whether equal, more or less.

For the sake of brevity, the multiple of the assessable bûd area and of the "standard average yield," which represents this usual average out turn, may be referred to as the "standard total yield."

- (6) The full possible revenue for each crop class is simply the multiple of the total assessable areas of all the crops in the class and of the class crop rate; and the full possible revenue for the whole village is the sum of these multiples of the several crop classes.
- (7) The full possible revenue for the village is to be taken only when the aggregate actual out-turns on the aggregate assessable areas for the village as a whole is not less than the aggregate "standard total yields," that is, the usual average out-turn on this amount of bûd area.
- (8) But if the aggregate actual out-turns for the whole village is less than the aggregate "standard total yields," than the actual demand on the village will also be less then the full possible revenue.
- (9) (i) The reduction, as compared with the full possible revenue, will be made in the crop-class, or classes, in which the aggregate actual out-turn is less than the aggregate standard total yield for that class.
  - (ii) The actual demand (D) for each such crop-class will be taken in the simple direct proportion to the full possible revenue (R) of the crop-class that the aggregate actual out-turn (x) bears to the aggregate standard total yield (y) of the crop-class, without reference to any further scale or standard. That is, the actual demand of the crop-class is found at once by the simple formula,



- It thus solves the problem of allowing for deterioration in holdings during the currency of a Settlement (vide para. 12 of the Government of India's Resolution No. 6-193-2, dated the 24th May 1906). If any land, whether field, holding or whole village, deteriorates and becomes incapable of bearing the better crops, the system automatically applies only to the rates for the poorer crops grown: or if, while continuing to grow the Class I. or Class II. crops the deteriorated soil allows only of a stunted produce, the reference to the standard average yields allows the rates to be reduced to the relativity of the actual out-turn. And if the land goes out of cultivation altogether, there being no crops, there is no rate and no revenue.
- (3) It offers a solution also of the now very important problem of how to assess *poppy* cultivation in Ajmer-Merwara.
  - If poppy is grown, it will pay the rate fixed for it in Ajmer district, the ordinary Class I. crop-rate: if it is not grown, the village will not be assessed on any poppy cultivation but will pay the rates only for the actual crops that it does grow.
  - And if an excise tax is placed on the opium produced, the revenue assessing crop-rate for poppy can be reduced proportionately, or, if the tax amounts to an impost which exceeds what would be levied as revenue on the land growing poppy if no tax existed, the revenue crop-rate for poppy can be remitted altogether and poppy be allowed to be cultivated free of land revenue, its produce being subject to the tax only.
- (4) Further, this crop-rate system will, while easing off the burden of the revenue pari passu with the stages of deterioration, automatically allow for expansion also on improvement, and will generally follow step by step all the varying changes in the capabilities of the villages of the tract. If a village advances, owing to increase of population, improved water-supply, larger stocks of cattle and manure, or other causes, and gradually grows the better crops in increasing proportion, the crop-rate system will concurrently take its legitimate toll of the improved resources, without creating any disturbing influences.
- (5) It will assess relatively correctly *ckfasli* and *dofasli* areas, discouraging over-cropping without due regard to proper rotation and consequent exhaustion and legitimately penalising double-cropping.
  - Incidentally, it gets over the difficulty met at the last assessment by Mr. LaTouche by the adoption of the expedient of what he called the "manured advantage." For the more lucrative crops on heavily manured soils, higher crop rates can, if necessary, always be fixed, and applied without disturbing the system of assessment.
- (6) It will also dispense with the necessity of separate rules for suspensions and remissions of revenue with all their attendant defects of delay or inaccuracy in their application, and of the depressing effects of outstanding arrears hanging for long periods over the heads of the cultivators. The demand at each harvest being proportioned to the actual out-turn, fixed automatically as it were and promptly at the moment of harvesting, there should never be any arrears, save possibly only those due to deliberate recusancy, and not to inability to pay.

- (7) It will give uniformity instead of diversity. To have (a) a purely fluctuating system for tank lands of a rate applied to actual areas every harvest, (h) a mixed system of fixed and variable assessments on the wells and chahi cultivation, and (c) another fixed-standard demand with recurring remissions system for barani lands, would be an unpleasing, complicated, patch-work arrangement, which, if not producing confusion, would certainly not, I think, save any labour. With the constantly changing well capacities there would be much inspection work and frequent taking-off and putting-on, or proportionate reductions, of the well assessments with results in the end not approaching so closely, as the rate-on-irrigated-area-system, the aim of proportioning the demand to actual out turn; while, if the work were not kept up to date and remissions and reductions promptly made, the scheme would be defeated of its object. And as regards the barani cultivation, with any system purporting to proportion the demand to the out-turn, there must be, every year, examination of the barani statistics of areas and out-turns, and an amount of calculation of no less volume than under the all-round uniform system proposed.
- (8) The proposed system should, on the other hand, keep down the volume of the assessing work both at Settlement and in every subsequent year as much as is possible with an all-round fluctuating system: first, no standard well areas need be worked out: next, the work of inspections will be reduced to a minimum; in fact only the ordinary crop entries of area and produce will ordinarily require the checking officer's attention on the spot in the ordinary way, while there will be no constant taking off and putting-on of whole, or partial, lump assessments on the wells.
- · (9) It involves the introduction of no new Khasra and not even any alteration in the existing form of Khasra. This all-important field register, with which the patwaris and villagers are now familiar, may remain unchanged: provided that the entries in this are properly and honestly made, the rest follows automatically.
  - (10) It will meet sufficiently well the case of the bitter, and other noxious-water, wells.

There are, especially in the Ajmer district, in the Rawsar circle largely and in some villages of other circles also, many tracts in which the wells have either bitter or what is called oily water The latter has a very speedily defertilising effect upon the soil. In the brackish water wells the water runs through all degrees of saltness or bitterness, from merely containing salts making the water "thick," as the cultivators term it, to being thoroughly impregnated with noxious salts Under any fixed system of assessment the proper treatment of these wells is an Reduced rate could, of course, be awkward problem. fixed for them, but this does not satisfactorily solve the problem over a period of years. In the first place, many of these wells cannot be worked with any regularity even if there is water in them. Their lands must be left to lie every 2nd or 3rd year, in order to recover. But secondly, in many of the wells, the water, though bitter, is quite good for certain crops—other crops cannot be grown, e.g., maize or cotton,—but when the crops (generally rabi) which the water suits are sown, the out-turn is ordinarily

very good, and for such wells an ordinary ekfasli rate needs no reduction.

Under the system now proposed, when the well is used, if the crop out-turn is up to the standard the land will pay at the full rate fixed for the crop: if the out-turn, owing to the salt, is meagre, reference to the average yields fixed for ordinary crops will operate to reduce the revenue in proportion. If the well is not used and the land lies fallow, there is no revenue on it, or if it is sown with dry crops only, the dry crop-rate will be applied.

(11) Lastly, it will deal effectively with the difficult general problem of wells and *chahi* lands—the well or *chahi* assessment will rise and fall automatically with the actual existing conditions.

If the well goes out of use and its chahi land grows only dry crops it will pay dry-crop rates only: if the land lies uncultivated it will pay nothing. If portion only of its area grows wet-crops only, that portion will pay a rate equal to a wet-crop rate and the remainder, although at other times irrigable, will pay either dry rates or no assessment at all.

To the above may be added that as a fluctuating system it is free from the defects and anomalies of either the variable system of assessment as first introduced by Mr. Whiteway in Ajmer, or of the variable system as now working since its modifications in 1893 (vide Appendix III. to this report). The basis of the assessment is produce, not merely area. There is no question now of a changing rate, rising high in years of falling area and curtailed food supplies, and the system will thus start off free from the violent prejudice (which attached to Mr. Whiteway's original scheme, and still attaches to the assessments of 2nd-class variable tanks), caused by a rate rising in lean years. There is no "standard demand" to strive after and to defeat the good intentions of the scheme: the revenue demand will fluctuate naturally with the character of the outturn, will respond automatically to actual conditions, and the fixing of it will be done promptly at the time of harvesting by the assessing officer himself under the proposed rules direct, vide Appendix IV. There will be no reporting, as under present rule 12 on page 521 of the Ajmer Regulations, to higher authority, with its consequent necessary delay. The calculations will be simple, easy, and perfectly straightforward; the cumbrous system of dry unit areas, with its, in many cases, fallacious and unequal results, is avoided.

Finally, there is no such harassing uncertainty from the cultivator's point of view: he knows that if he sows a certain area with a certain crop he is liable to pay the rate for that crop, or that area: and that the rate will not be enhanced. He knows at once beforehand from the beginning of his operations the most that he is liable for, and can make his arrangements accordingly. But all along he has the further assurance that, should the season as it progresses prove unfavourable and the out-turn for the village fall below a certain level, the Government will not demand the full revenue given by the rates on the area sown, but something

less in proportion to the actual out-turn.

103. For tank-lands at any rate the cultivators will have no objection to the system. They are already familiar with and appreciate a fluctuating assessment on tank-lands and on their abi soils. All that they really object to is, in the case of the first-class tanks, the present crop rates, which are, indeed, high as compared with the average run of rates on second-class tanks (vide Appendix I.), and, in the case of the second-class tanks, a rate rising higher and higher as the crop area and total out-turn fall. But neither of these objections will apply to the proposed system.

And as regards chahi lands, I think that the cultivators will, on the whole, welcome the system if only it be set going from the outset in proper order and they can be convinced by the its first few initial assessments that its working is going to be properly supervised and controlled by the superior revenue officers and that they will not be left gradually, from relaxed or perfunctory supervision and imperfect control, to the tender mercies of the patwaris and lower revenue staff. At any rate, in my inspections they point out to me with bitterness of spirit their fields still charged with a chahi rate though they are not now able to irrigate them, and petitions for the removal of the chahi rate are numerous.

And for barani lands, if talabi, abi and chahi soils are brought under a thorough-going fluctuating system, the villagers will not object to their barani lands following suit.

Lastly, to give some indication of the actual process of assessing a village and of the amount of work actually involved therein, I have taken the actual Khasras of two villages, Ansri and Bhimpura (one moderately good and one a poor village), extracted the actual crop figures therein recorded for each of the two harvests of each of the four years, 1307 Fasli, 1308 Fasli, 1313 Fasli and 1314 Fusli—two good years and two bad years-filled them on to Khataunis in the actual form proposed by rule 12 of the draft assessment rules in Appendix IV, and worked out in each case what would have been the current assessments had the system now proposed been then in force.

These Khataunis are attached as Appendix XX, to this report as

specimen assessments for reference.

In these specimen Khataunis columns 6 have, owing to the want of the necessary information, had to be left blank, and in future actual assessments the entries in this column will add a little to the work on this Khatauni. But the additional work will ordinarily be very slight, consisting only of making deductions in column 11. And even with this addition, these specimen Khataunis first demonstrate clearly, I think, how really simple and straightforward is the assessing work as intended by the system proposed.

Secondly, they indicate the nature of the assessments to be expected to be given by the system. By the village crop rates shown on these Khataunis (which rates are provisional only), the village-to-village data not being yet complete, the demands assessed under this system

would have been :--

### FOR MAUZA ANSARI.

					${ m Rs.}$	A.	P.
$1307 \; Fa$	ısli	•••	•••	•••	140	9	0
1308 ,,			•••	•••	739	0	0
1313 ,	• • • •	•••	•••	•••	85	12	0
1314 ,		•••	•••	•••	888	8	0

The total of the four years is Rs. 1853-13-0, and the average is Rs. 463.

The present annual fixed revenue for the village is (1314 Fash)

But the actual collections for these years have been:—

					${ m Rs.}$	A.	P.	
1307 Fasli	•••	•••	•••	• • •	10	0	0	
1308 ,	•••	•••	•••	•••	801	0	0	
1313 ,,			•••		13	0	0	
1314 "	•••	• • •	•••		809	0	0	

of which the four year's total is Rs. 1,633 and the average Rs. 408.

## FOR MAUZA BHIMPURA.

The corresponding figures are :-

	Demand	by the F	roposed S	yste	m.			Present Dema		d	Aetual C		3C-
	,,				Rs.	А.	Р.	Rs.	Α.	Р,	Rs.	Ã.	Р.
1307 Fas	eli		•••	•••	109	11	0	486	0	0	N	il.	
1308 "	•••	•••	•••	•••	868	2	0	486	0	0	784	0	0
1313 "		•••	•••		104	3	O	486	0	0	N	r i.	
1314 ,.	•••	•••	•••	•••	913	4	0	486	()	0	672	0	0
			Total		1,995	4	0	1,944	0	0	1,455	0	0
		Annual	average*	••	. 498	0	0	486	0	0	364	0	0

The average of the fluctuating demands by the proposed system of two bad and two good years, while agreeing with the current annual demand under the fixed system, is here much above the actual collections, and it may be that the provisional rates I have used are still too high for this village, a matter that will be looked to when I come to go over each village in detail, with its complete figures in front of me, and fix definitely the rates for it and its standard nominal Jama. But the actual collections are not necessarily an infallible guide to a village's real revenue capacity.

105. There are three obvious possible objections to this scheme. One is, that by knowing that he will have to pay only on what he grows, the cultivator will not exert himself to crop as large an area as he might do if he had under another system to pay (say) a chohi assessment on it whether he cultivated it or not: that is, that the system will put a premium on laziness.

Another objection may be that the system removes all incentive to extend cultivation, such as a fixed assessment gives when fixed for a period of years. Under the latter system the villager gets the benefit for the term of Settlement at least of all such new cultivation; under the proposed system it will become liable to assessment either at once on being culivated, or, if it receives any exemption under the rules for improvements, the exemption will be for a shorter period.

A further objection is that contained in Mr. Whiteway's paragraph 62 of his final report, viz: "that the system of a fixed rate on actual areas makes it the interest of each man to conceal as far as possible the cultivated area," while a scheme, such as Mr. Whiteway proposed which provides for the lowering of the rates with the increase of cultivation, gives some slight incentive both to its spread and to its correct record.

106. The first of these objections has perhaps some force in Merwara where Colonel Dixon's system of high assessment, though tempered by heavy remissions, was designed to some extent with the object of compelling the *Mers* to be industrious, but the force it has now is, I think, very slight. Even the Mcrs bave settled down now to agriculture as a

<sup>\*</sup> In these calculations everything has been included as assessable: but if crops of less than four annas standard were exempted from assessment, the annual average demand would not exceed Rs. 445.

primary means of subsistence. They have not still, as in Colonel Dixon's time, to be weaned from habits of depending on less reputable methods of livelihood.

And anyhow, both in regard to this and the second objection stated in the last paragraph, they would be by no means peculiar to the system now proposed for Ajmér-Merwara. They are common to all similar systems of fluctuating assessments which have been set in working elsewhere, and responsibility for which has been fully accepted. The Government of India themselves dispose of a similar objection to the fluctuating system (which they themselves recommend) on tank lands vide paragraph 7 (i) of their present letter. They say that "in view of the experience gained in other parts of India, the Government of India are unable to accept the argument that a fluctuating assessment would tempt the proprietors to let the tanks go out of use, as a sufficient ground for maintaining an irrigated assessment on unirrigated areas."

107. This statement of the position applies with equal force to wells and well lands. It is possible that the system proposed would here and there tempt some cultivators to content themselves with dry crops, to let the *chahi* area down purposely, and to shirk using their wells to their full capacity. But even if they did, the remedy under modern conceptions is not to "maintain an irrigated assessment on unirrigated areas."

As a matter of fact, however, the contingency, viz., designed reduction of chahi area merely to escape the higher crop-rates, is not one which, I think, need be seriously feared. If a man has a well and there is water in it sufficient for irrigation, the Ajmer-Merwara cultivator will use it all right. Self-interest will drive him to do so. And as regards "dry" cultivation, the determining factor here will always be the rainfall. If this is or promises to be favourable, a large area will be put under seed, whatever be the method of assessment, provided that the expected demand be not too heavy. Lastly, the building of "new" wells for the extension of "wet" cultivation will not be cheeked if every cultivator building a new well is made, by a protective lease or otherwise, to realise that this new well will, under the rules already in force, be exempted from the full increased assessment for twenty years.

- 108. The third objection, viz., the temptation to concealment, relates to a mechanical matter, the remedy of which lies in our own hands. The admission of successful concealment even would be a confession of failure which is at least premature. So long as the superior revenue staff see that the Girdawars are doing their checking work properly and are effectively supervising the patwaris' work, it should not be possible for cultivated areas to be concealed to any serious extent, or for a patwari to understate out-turn for long without being detected; and if such a case of understating or concealment should occur, the punishment should be prompt and deterrent.
- 109. There remain to be considered several subsidiary questions of importance in connection with this proposed system of assessment. These are :—
  - (1) The assessment of lands the value of whose out-turn is enhanced by (a) new wells, (b) other improvements and (c) the breaking-up or reclamation of waste.
  - (2) The fixing of rates for special waterings from tanks required for any purpose other than the production of a fully-matured crop (vide rule 4 (a) of the irrigation rules on page 436 of the Ajmer Regulations).
  - (3) The assessment of lucerne grass and fodder crops.

- (4) The question of rates for bhum and muafi lands, both those entitled to tank water at privileged rates and those at ordinary rates (vide rule 13 of the irrigation rules on page 438 of Volume H to L, Ajmer Regulations).
- (5) The assessment of lands irrigated from tanks by 'lift.'
- 110. Questions two and three may be first dealt with.
  - (i) As regards matter No. 2, I propose that the present rule four (a) referred to be retained unchanged. The cases of special single waterings have been and will be very few in number: and the rates given in that rule, which are based on the present crop-rates for the Rabi harvest, are already high enough. If any change were required to be made, it would be to fix rates lower than this. But in the circumstances the present rates may well be retained.
  - (ii) And as regards question 3, here also the provisions of the present rules, viz., rule 14 of the irrigation rules on page 438, and rule 18 (m) on page 520 of the Ajmer Regulations, may be retained unchanged. I have therefore reproduced the substance of these two rules in rule 8 of the proposed draft rules in Appendix IV.
- 111. In regard to question 4 of the last but one paragraph, from the point of view of tank water-rate or revenue, there are two kinds of muaft and bhum, one kind paying privileged rates on certain tanks, the other paying the ordinary Khalsa rates.

Under the present rule 13 referred to, the first, privileged, class pay a uniform fixed rate of Re. 1-4-0 per harvest, on the conditions stated in the rule. The rule applies to the present second class tanks only (vide paragraph 93 of Mr. Whiteway's final Settlement Report).

As regards this rate of Re. 1-4-0 per aere, I have not been able to discover with reference to what exactly this particular figure was originally fixed. But at any rate it is a very old one: in fact, it seems to be an old traditional rate—eight annas a bigha—found existing by former generations of officers, who have been concerned with the drafting of the Irrigation Rules into their present form, and adopted by them without change—perhaps an arbitrary rate, at which, probably from the first construction of the tank, the bhumias and muafidurs concerned were allowed to take water. Or, if it did at one time represent any exact proportion of the ordinary Khalsa rates, all trace of this proportion seems since to have been lost,

If it is open to hazard the supposition that it represented one-fourth of a maximum rate of Rs. 5 per acre of ordinary crops on the better tanks, then on present figures even there is no reason for enhancement (vide paragraph 18 of Appendix I. to this report). One-sixth of the average annual value of an average acre of talabi soil under all second-class and fixed tanks is roughly Rs. 4 only, one-fourth of which is Re. 1, and these figures include land revenue also. On the better tanks the average would be somewhat higher, but Re. 1-4, as one-fourth of the ordinary Khalsa water-rate alone, may still be taken as a maximum. On the other hand, there is no question of reducing this old rate. It is now very well known and the people concerned are accustomed to it.

I therefore propose for the present, at any rate—for if, on further enquiry, there should appear any ground for re-considering this proposal, I will re-submit the matter—that this rate of Re. 1-4-0 be adopted for the new term of Settlement also for these privileged bhum and mush lands.

This rate will, of course, apply only to irrigation taken by these privileged plots from those tanks in respect of irrigation from which

they have hitherto been paying this rate.

All other bhum and muafi lands will of course pay the same waterrates as the ordinary Khalsa lands. The crop-rates, however, now proposed in this report are composite rates, including charges for both land and water revenue.

As already indicated, the third-class of crops represent primarily the crops sown on barani soil without irrigation; that is, their rates represent practically the revenue rate on the land in the village in its dry aspect

apart from the irrigation factor.

Bhum and murft lands, being land-revenue free, must of course not be changed with this. They may, therefore, be assessed at the ordinary Khalsa erop-rates after deduction of the third-class crop-rates of the village in which they lie:—e.g., the first-class crop-rate for irrigated crops in a village is Rs. 3, the third-class crop-rate is Re. 0-8-0 per acre. The water-rate, therefore, for bhum and muaft lands taking irrigation from a tank will be Rs. 2-8-0 per acre.

112. There is, however, another question as to these rates on these bhum and musfi lands, viz., whether they, or rather the revenue given by them, should, or should not, be made subject to proportionate reductions for diminished, under average, out-turns in the same way as the revenue

on ordinary Khalsa lands is intended to fluctuate?

Under the present rules, the two kinds of *bhum* and *muafi* lands are treated differently. Thus, the privileged *bhum* and *muafi* lands which pay the fixed reduced rate of Re. 1-4-0 under the rule 13 quoted do so on the express condition that, if they begin taking the water in any harvest, this rate is payable in full (a) no matter how much or how little water they get, and (b) irrespective of whether they give a erop or not.

Ordinary bhum and muafi, on the other hand, which are irrigated from first-class crop-rate tanks receive the benefit of rule 9 of the irrigation rules when applied; or if irrigated from second-class tanks, and the crop is less than a four-anna one, they would in the same way as similarly failed Khalsa crops under rule 16 (2) not be required to pay any water-rate.

Khalsa crops under rule 16 (2) not be required to pay any water-rate.

That is, for non-privileged bhum and muafi lands paying the ordinary khalsa water-rates the principle has been already admitted that whatever concessions, under the rules for the time being in force, the khalsa lands get, the bhum and muafi lands paying the same rates also get. This principle should be followed under the new system now proposed, proportionate reductions of the water revenue on these non-privileged bhum and muafi lands being given according to actual out-turn.

But what is to be done in this respect in the case of the first kind of bhum and muafi lands paying privileged rates on certain second-class tanks under rule 13?

The present position must, I presume, be allowed to continue. It will seem, perhaps, somewhat anomalous to allow fluctuating water revenue on other blum and muafi lands and to refuse this on these privileged lands; but the question as to why the latter should not pay the full ordinary rates was raised at last Settlement, and it was apparently decided that as these privileged lands got their water-supply so cheaply, no further concessions were necessary. On the same ground, therefore, I propose that the rate of Re. 1-4-0 for these privileged bhum and muafi lands be again made conditional on full payment in all circumstances, as in the present Rule No. 13 referred to. The one exception only that might possibly be made in its rigidity is to remit altogether even this rate in cases where the crop irrigated turns out to be a complete failure, giving no grain out-turn. But even this I do not advocate: it would increase the work of the patwari and of the assessing officer and might lead to abuses for a comparatively small gain.

113. With regard to the question of "lift" irrigation from tanks (question 5 of para. 109), it is true that an acre of lift irrigated land will not, if the cultivator take sufficient trouble with it, give less produce than one irrigated by "flow." But there will ordinarily be a sensible difference in the cost of production, to the extent of the cost of the labour and other expenditure involved in working the lift, as compared with the flow irrigation

This question of "lift" irrigation, however, I have already discussed in my Note on tanks in Appendix I. As there indicated, on other tank systems and on most canals the "lift" rate is usually one-half of the

rate for the "flow" irrigation.

I propose that in Ajmer-Merwara also on crops grown by "lift" irrigation from tanks only half the rates be charged that are fixed for those irrigated by "flow."

114 With regard to the subject of new wells and other improvements (question 1 of para. 109), as the whole question of the existing Rules of Ajmer-Merwara relating to agricultural improvement still awaits examination, and there are certain points connected with them on which the ultimate orders may possibly modify these rules, I have put what I have to say for the present purposes into the form of a Note attached to this report as Appendix V., to which I would now request reference.

I then need only state here, in summary of the conclusions there given, the course which it is proposed to follow for the present in regard to the several classes of local improvements, pending the settlement of the whole general question of these improvement rules, and the final orders

thereon:—

- (1) A new well built within the last twenty years will be dealt with by the lands irrigated from it being assessed at "dry" rates for a period of twenty years from the beginning of the harvest first irrigated from it, in strict literal adherence with the existing rules.
  - (2) New wells will be understood for present purposes to include:
    - (a) An entirely new well converting "dry" to "wet" cultivation, or creating new "wet" cultivation altogether.
    - (b) A new well built where another well already exists, and irrigating only areas already irrigated and assessed at "wet" rates.
    - (c) A new well built to replace an old one going, or gone, out of use from causes beyond the well owner's control.
  - (3) I propose also:--
    - (i) In the case of an existing well or of an existing 'rap-pat' (which is not already enjoying exemption under the current improvement rules), which has been fairly recently repaired and of which the repairs have involved the owner in serious expenditure,
    - (ii) In the case of new distributaries, including odhs, and new nâdis and rappats, built within the ten years or so,

to consider each case on its merits without reference to any rigid periods, e.g., five or ten years, such as are prescribed by the present rules, and to grant exemption from increased assessment on increased value thereby created to such extent or for such period as may be necessary to recoup the capital expenditure incurred in each case, and to give interest thereon at the rate of, say, eight per cent. during the period of recoupment.

- (4) A regards reelamation of waste, the existing rule will be followed.
- (5) Unsuccessful new wells of the class referred to in paragraph 9 of the Note in Appendix V., I do not propose to deal with for the present, at any rate, pending orders on the general reference on the whole subject of the Improvement Rules: nor with repairs to existing distributaries and nadis.
- For each village, in the course of the current preparation of new records, two separate lists are being compiled in the village itself, one showing all its wells, and the second showing all its other improve ments of all kinds. When the time comes for each village's assessment crop-rates to be fixed and its standard nominal jama to be worked out, its lists will also be gone through, and all wells and other improvements which are found to be entitled to exemption or reduced rates on the grounds stated above, will be registered in a "register of improvements entitled to concessions," in which will be recorded all necessary details, and an extract therefrom relating to his well or other improvement will be given to the owner concerned, by way of saund or protective lease (vide para. 10 of the Government of India's Resolution No. 6-193-2, dated the 24th May 1906). Thereafter, when a new well is built or other improvement made, the Collector will, under rules (which will be submitted in draft for orders in connection with the general reference already referred to) prescribing all necessary procedure, have the well or other improvement after due enquiry registered in the register of improvements, and have a similar extract therefrom granted to the rightful recipient. It will then be one of the duties of the Revenue Extra Assistant Commissioner and of the Collector to watch the entries in the registers and, as the period of each registered concession expires, to take the necessary action to enforce the Government's full demand.
- 115. In the draft proposed rules in Appendix IV., I have inserted provisions relating to the assessment of new and repaired wells. But a re-draft to give effect to whatever orders are passed upon the present report will be submitted for separate consideration.

I may remark here, however, that if the system of assessment now proposed in this report be approved, at any rate on its broad lines, these rules are meant to take the place of (i) present rules 1 to 11, except 4 (a) and 4 (b) and 14 to 24 inclusive, of the present tank irrigation rules on pages 435 to 440, and (ii) all the present variable village assessment rules, 12 to 25 on pages 518 to 522 of the Ajmer Regulations, all of which rules may now be abolished. The remaining Irrigation rules 12, 13 and 25 to 68, together with Appendix A to these and its Forms may then be revised as executive and administrative rules, according to what is indispensably required.

116. The fluctuation system proposed is intended in general to apply to all the villages of Ajmer-Merwara. But there are a few villages in which, owing to exceptional circumstances, a fixed assessment may be allowed to be retained if the proprietors so desire it and there are guarantees that a fixed assessment will work successfully.

For instance, the village of Ashapura, near Nasirabad, belongs to the Presbyterian Mission Society, and is worked by it in direct connection with the purposes of the Mission. The present Jama is a light one, and the Society can and does finance the village through all seasons. Kiranipura, also, has some exceptional circumstances; it adjoins Ajmer itself, and its population are either malis or market gardeners, who grow fruits and flowers largely, for which there is a ready and lucrative market in the Ajmer City, or are of other castes who find ready employment there. Neither of these two villages, therefore, are dependent merely on agricultural conditions.

For such villages, if a fixed assessment were pressed for, that is, now

before the new arrangements are put into force, I think it might be granted on the express condition that, if the villagers ever applied for a suspension and remission of the revenue on the ground of adverse seasons, or allowed the revenue to fall into arrears at any time, the village would be brought at once under fluctuating assessment like the rest of the district.

If a general fluctuating system for all villages is now sauctioned, at the same time, therefore, power may be reserved for me to propose, by way of exceptions, fixed assessments for the villages indicated. This authority would, of course, be only very sparingly used, only where there is reliable ground for belief that a fixed assessment would work successfully without risk of suspensions, remissions or arears of revenue.

### THE GROSS PRODUCE AND NET ASSETS.

117. In this section of the report the figures now given relate only to the Ajmer district

The extraction work of the Beawar and Todgarh talisils of Merwara is not yet finished, and their net assets and proposed rates will be report-

ed separately as soon as the whole materials are complete.

The estimate of the total gross produce and the net assets for district Ajmer have been worked out as averages of the netual figures of five years—1304 Fasli, 1305 Fasli, 1308 Fasli, 1311 Fasli and 1314 Fasli. These are, it will be seen from the statement of harvests given in paragraph 36 of this report, the better years of the last decade. These can be taken, as we are proposing a fluctuating assessment which allows reduction for years under this standard, and are not proposing a fixed assessment for which an average of ordinarily good and poor years would be required. Owing to the area under eash rents being very small and, in fact under real competition eash rents, insignificant, no valuation of the assessable net assets of the district could be attempted by rates given by these eash rents.

There are, however, certain preliminary matters which require notice. These are those relating to:—

- (1) Prices.
- (2) The nature of the cultivating holdings, rents and the rental system, and the landlord's share of the divisible produce.
- (3) Customary deductions from the divisible produce.
- (4) Bhusa and straw.
- (5) Yields of crops and standards of yields.

### PRICES.

I deal with prices first. I have had to work out the valuations of all the average erop out-turns by applying the retail prices, to begin with. These are for the main, and by far the most important, staples grown eomparatively readily obtainable from the lists of retail prices kept up regularly in the tahsili registers, supplemented in a few cases by the Gazettes and the volume of "Prices and Wages" published by the Government of India, and, for a few of the earlier years after last Settlement, from the District Annual Administration Reports. These sources give the actual prices recorded at the time, year by year or month by month, for some twenty-one of the most largely-grown staples out of the forty-one different articles shown in the village Jinswara statements: and for these articles these prices cannot be questioned as the safest, most certain, prices to work on obtainable in the circumstances. And in the case of the remaining articles for which such recorded prices do not exist, or for which no series of prices over a number of years could anywhere be obtained, such as vegetables, melons, gwar, kulath, etc., I have, on the basis of actual

recent prices ascertained as obtaining in as many centres as possible all over the tahsil, or on estimates of the ordinary eash values of the average outturn on an average aere of the erop in question, worked out for each an average cash price per maund or per average aere of produce, according to the nature of the crop, which is, I think, reasonably correct and safe. The statement of these prices is given in Appendix XIII. attached to this report.

- A complete list of harvest prices, on the other hand, for fortyone articles over a term of years it has been impossible to obtain. No official lists of any of these prices are kept up anywhere in the district; and, although endeavour has been made to obtain these prices from private sources, and statements have been collected from mahajans, zamindars and others of all the larger or representative villages over all portions of the district, I have not been able to obtain a complete satisfactory list, for all the forty-one articles, of the ordinary average prices which the cultivators may be supposed to get for the produce of their several crops, on which one could rely with any confidence. At any rate, a satisfactory list of harvest prices obtained by the cultivators for even the majority of the ordinary crops over a term of years of any length it is practically impossible to obtain. The prices forthcoming are practically wholly those of recent years, which cannot be applied simply to the more distant years: while the prices given for the rarer crops seemed to be mere estimates in many cases rather than actual prices. Moreover, a set of actual prices of some sort or other, for as many years back as possible, was desirable as a definite basis to work on for several purposes connected with this report.
- 120. A valuation of the average gross produce and the assets at the retail prices alone which are paid by the consumers in petty transactions in the bazar would, of course, be entirely fallacious; a valuation representing values received by the cultivators from the grain-dealers on wholesale transactions is, of course, absolutely essential.

But it was really wasting time to try and guess out more or less fictitious, certainly assumed and not real, prices over a term of years for each individual article of the large number, forty-one, for which prices are required. It is obviously safer and is, in fact, the only practical course in the circumstances to take the retail prices and to apply them for the valuations required, and then to suitably reduce the latter to allow for the excess of retail prices over those at which the cultivators have to sell—as was done by Mr. LaTouche at the last Settlement (vide paragraphs 209 and 216 of his report).

With reference to the statement of retail prices given in Appendix XIII., it may be remarked that, as the tahsili registers give monthly prices, the figures shown in that statement are, for the articles taken from those registers, in each case the average of the prices recorded for the three months at and succeeding each harvest timo (viz., October, November and December for Kharit erops, and April, May and June for Rabi crops), these averages being taken as probably not so far removed from the level of harvest prices as a half-yearly, or a yearly, average would be. Nevertheless, these prices are still the retail prices of these months, and their effect still requires further reduction.

The question now is, to what extent the valuations at the retail prices which we have taken must be reduced to bring them down as near as we can judge to the level of the real assets of the cultivators.

121. At the last valuation of the district's assessable assets, made in 1874 by Mr. LaTonche, who also apparently found retail prices only available, he estimated (vide para. 216 of his final report) that the cultivator's selling price was about ten per cent. lower than the retail prices taken by him. A reduction of ten per cent. from the present retail prices, however, would not be sufficient. I have the village statements, already referred to, of the prices said to be obtained by the cultivators for their crops in those

villages or their neighbourhood, and by the courtesy of the local agents of the firm of Messrs. Ralli Brothers, I have been supplied with a list of their wholesale prices which they have paid for certain articles for a number of years past at their two agencies at Beawar and Kekri. Examining all these lists, I find that, for the articles given, these wholesale and village prices range roughly from 10 to 25 per cent. below their retail prices. The estimates of the Tahsildars and other revenue officials who have also been consulted in this matter put the price to the cultivator at some 10 per cent. to 12.5 per cent. and 15 per cent. below their retail price.

Personally, taking all considerations into account, I think we must assume a reduction of twenty per cent. all round from the stated retail prices before we can get down to a reasonably safe level of harvest prices. The Ajmer city bazar is fairly central for the whole of the Khalsa villages, but, on the other hand, the cultivator's produce changes hands at once in his village, and he will only get the village price which the Bunnia will give, and the Bunnia will naturally take care to pitch that price so as to cover at least the cost of any transporting of the grain that may be necessary. As the villages recede into the farther-removed outlying portions of the district, the selling prices to the cultivator must correspondingly fall lower and lower from the retail prices governed by the rates in the Ajmer market, on entering which, again, all articles will have paid an octroi tax.

Lastly, in respect of a large portion of the out-turn pure economic considerations do not apply. Even before it is sown, the crop is in many instances already hypothecated to the Bunnia who advances the seed, finances and feeds the cultivator during the period of cultivation, and at the last steps in to take the matured crop at his own price. If attention were concentrated solely on this factor, it would be very difficult to make any acceptable estimate at all of what the value was to the cultivators of the yearly crop out-turns.

But at any rate the reduction of ten per cent. from the retail prices, except possibly for a comparatively few villages in the vicinity of Ajmer, would, on general grounds, be too little. The reduction of twenty per cent. which I propose to make is not, I think, too much; on the contrary, if anything, when the village circumstances and the distances of outlying villages and all factors are considered, it might even be increased somewhat, up-to twenty-five per cent. or so.

122. As regards the question of how present prices compare with those of last Settlement, I attach the two following statements, which explain themselves. The first includes the figures of all years during the last thirty for the six principal grain staples; the second excludes six years of famines or exceptionally high prices.

STATEMENT VII.

Average prices	for a	certain	staples	since	1874	to	1906-07,	Ajmer	District.
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St:	aples.	1874.	1877 to 1882.	1882-83 to 1886-87.	1887-88 to 1891-92	1892-93 to 1896-97	1897-98 to 1901-02.	1902 03 to 1906-07.	Average prices for the 20 years 1887- 1906-07.	of prices of last 20 years over	Increase of prices of last 10 years over those of 1874.
	1	2	3	4	5	6	7	8	9	10	11
Wheat Barley Gram Maizo Jowar Bajra  Wheat Barley Gram Maizo Jowar Bajra		 16-0 24 0 23-0 22-0 23-8 19-12 16-0 24-0 23-0 22-0 23-8 19-12	2 2 2	15:13 26:1 27:0 25:14 24:11 19:15 4:11 2:14 2:14 2:2:4 18:1	20	14	14-7 1 1 1 1 1 18	12-2 17-11 16-11 20-10 21-2 47-4 1-6 7-4 6-1 8-8 -10	11·13 18·11 18·2 19·2 19·4 16·9	+36 p.e +29 ,, +27 ,, +15 ,, +12 ,,	+41 p.c. +39 ,, +43 ,, +19 ,, +26 ,, +25 ,,
Wheat Barley Gram Maize Jowar Bajra		 16 0 24·0 23·0 22·0 23·8 19·12			1	2·12 20·1 9·10 20·6 20·4 17·1				+26 p.c. +20 ,, +17 ,, + 8 ,, +16 ,, +17 ,,	Increas- of avere age pri ecs of the 30 years to those of 1874.

Norn-All years included.

## STATEMENT VIII.

Sta	ples.	Average prices of 1874.		1882-83 10 1886-87.	· to	1892-93 to 1896-97.	1897-98 to 1901-02.	1902-03 to 1906-07.	of priers	All round increase 1887-1907 to 1871.
	1	 2	3	4	5	6	7	8	9	10
Wheat Barley Gram Maizo Jowar Bajra		 16.0 24.0 23.0 22.0 23.8 19.12	15·1 22·8 22·0 23·12 23·11 18·13	15:13 26:1 27:0 25:14 24:11 19:15	12·12 18·10 18·10 18·4 18·7 15·8	12·11 21 1 24·11 24·4 24·13 19·4	11-0 ( 18-3 16 9 17-15 ( 17-8 ) 15 14			
Wheat Barley Gram Maize Jowar Bajra		 16·0 24 0 23·0 22·0 23·8 19·12	24 24	5·7 4·5 4·8 ·13 4·3 9·6	2 2] 2 2 2]	2·12 21·6 11 21·4 10 7·6	18 17 30 20		+39 p.c +30 ,, +34 ,, + 9 ,, +17 ,, +15 ,,	
Wheat Barley Gram Maizo Jowar Bajra		 16·0 24·0 23·0 22·0 23·8 19·12		2 2 2 2	3·4 1·7 1·2 2·1 2·0 3·0		20 years 1887 to 12 20 19 20: 20:		1877-1907 to 1874. +21 p.c. +12 , +10 ,, + 7 ,, +10 ,,	-31 p.c. +20 ; +18 ; +7 ; +13 ; +14 ;

Note:-The years 1877-78, 1878-79, 1891-92, 1896-97, 1899-1990 and 1905-06 have been emitted as years of abnormally high prices.

Statement VII. shows that the average prices over the whole thirty years are in general some seventeen per cent. above the average prices taken by Mr. LaTouche in 1874 for his valuation: while for the last twenty years they are all-round twenty-five per cent. higher. For the past ten years the prices which have ruled are all-round some thirty two per cent. higher. Wheat has consistently risen higher than the other five commodities. But barley which is the principal staple of food in the district shows rises of twenty per cent, twenty-nine per cent. and thirty-nine per cent, in the above three periods.

Omitting the six abnormal years, however (vide Statement VIII) we find that over the thirty years as a whole barley has risen twelve per cent., while over the last twenty years it is twenty per cent. above that of 1874, and the average price of the last ten years is as much as thirty per cent. over that of 1874. All other articles exhibit a rise, though, except in the case of wheat, the rises are in general more modfied. Taken all together the six articles indicate that all-round average prices over the whole thirty years are ten per cent., those over the last twenty years are seventeen per cent., and those over the last ten years are some twenty to twenty-four

per cent. above the prices of 1874.

For the last eighteen years ending 1314 Fusli the district has compiled each year an annual district aggregate Jinswara statement showing the total areas and produce out-turns These eighteen years are just short of a full two decades; but as they represent closely enough the latter, I have taken these statements and valued their aggregate produce for each crop year by year at the prices shown in the statement in Appendix XIII., and worked out the annual average valuation. This comes to Rs. 13,54,110, without any account taken of bhusa and straw.

Valueing these average out-turns for the whole eighteen years of these statements, however, at the prices taken by Mr. LaTouche in 1874 (paragraph 209 of his report), we find that the present aggregate average produce would be worth Rs. 11,01,787. Rs. 13,54,110 is in excess of

Rs. 11,01,787 by some twenty-two per cent.

That is, these figures indicate that prices over the last twenty years have averaged all-round some twenty-two per cent. higher than those at

the last valuation in 1874.

With the value of bhusa and straw added in each case, the corresponding figures are Rs. 14,35,852 and Rs. 11,65,952, again a difference of twenty-three per cent.

The detailed figures of these valuations are given in the statement

attached as Appendix XIV. to this report.

Again, taking areas into account, both of Mr. LaTouche's statement and of the present eighteen years' average we find (vide Appendix XIV.) that his all-round average price for the produce of all crops combined was Rs. 209; while the corresponding price of the eighteen years' average total annual valuation is Rs. 283—the individual valuations at both periods being made, of course, at retail prices. Mr. LaTouche reduced his retail prices by ten per cent; we reduce ours by twenty per cent.

> Rs. 2.09 reduced by ten per cent. gives Rs. 1.88. 2.83 reduced by twenty per cent. gives Rs. 2.26. 2.26 is twenty per cent. in excess of Rs 1.38;

that is, over the tahsil as a whole and its total produce, a rise of twenty per cent. in the general value of agricultural produce over the last

twenty years from the level of thirty years ago is indicated.

Lastly, allowing for the difference in the average yields per acre for the six chief staples of paragraph 122, as assumed in Mr. LaTouche's statement (page 94 of his report) and of the average actual out turn of the last eighteen years (Appendix XIV.) we get the following figures:-

STATEMENT IX.

	1		2	3	4	5	6	7	8
			MR. LAT	оиснь'я Ѕг	TTLEMENT.		PRESENT.	-	Difference
	STAPLE.		Out-turn per Acro assumed.	Price assumed. (Rupces per Md).	Value per Acre.	Avcrage actual out-turn per Aere.	Averago prico (Rupees per Md),	Value per Acre,	of Column 7 and Column 4.
	•		Mps.	Rs.	Rs.	Mds.	Rs.	Rs.	
Barley		•••	10.00	1.66	16-66	10:31	2.31	23.82	+43 p. c.
Maize			10.00	1.82	18-20	7.68	2.14	16.44	-10
Jowar			2.50	1.71	4.25	2.36	1.97	4.65	+10
Bajra	•••		2.50	2.03	5∙10	2.85	2.33	6.65	+30
Gram .	•••	•••	2.50	1.74	4.35	3.54	2.35	8.32	+91
Wheat	•••	•••	7.50	2.50	18.75	7.34	3.19	23.42	+25
	Total				67.31			83.30	+23

. That is, again an all-round increase of values of some twenty-three per cent. is indicated.

There is thus ample evidence that there has been an increase of values of produce of some twenty per cent., or a little over twenty per cent. all round. Taking the round figure, we may assume for the purposes of this report an increase of twenty per cent, that is, primarily in retail prices; but we may assume also that, with the undoubted improvements of communications by road and railways and the greater movements of the population, the harvest values or prices have followed this rise of retail prices in an approximately corresponding degree.

THE HOLDINGS AND TENANTS, RENTS AND THE RENTAL SYSTEM, AND THE LANDLORD'S SHARE.

124. The distribution of the total areas in holdings between the khewatdars and their tenants is indicated for tahsil Ajmer in the following statement:—

# STATEMENT X.

			Cincles.			
DETAILS.			1311 Fasta	•		Total of District Ajmer.
	Ajmer.	Gang-	Pushkar.	Rajgarh.	Ramear.	
1	2	3	4	5	6,	7
1. Cultivated Area	23,106	20,067	5,534	25,150	40,643	1,20,50)
2. Area self-cultivated by the Proprietors	11,939	18,119	2,944	12,130	22,711	67,873
3. Percentage of 2 to 1	51.67	69.51	53-20	49-23	55*95	56.33
4. Area cultivated by Tenants-						į
(a) Paying Kind rents-						
(i) Ordinary	3,781	6,342	2,574	3,610	5,020	21,330
(ii) Theka and Gugri	233	20	5	119	35	412
(b) Paying Cash rents-						} [
(i) Ordinary	240	379	3	860	1,438	2,920
(ii) Gugri and Thoka	G18	145	8	218	141	1,130
(iii) Ilalsara and low-rented Barani	6,292	1,062		8,213	11,268	26,S35
5. Percentage of 4 (a) (i) to 1	16.58	24.33	46'51	14:35	12:35	17:70
6. Do. of 4 (a) (ii) to 1	1.01	-08	•00	-47	•00	•33
7. Do. of 4 (b) (i) to 1	1.03	1.45	•05	3.42	3.21	2.42
8. Do. of 4 (b) (ii) to 1	2.68	•56	•15	-87	•35	-94
9. Do. of 4 (b) (iii) to 1	27-23	4.07	•••	32.66	27.72	22-27
	100.00	100.00	100 00	100-00	100.00	100 00
10. Percentage of 4 (α) + 4 (b)	48:33	30:49	46.80	51.77	44.05	43.67
•			1311 1	Fasli.		
l. Cultivated Area	22,811	23,960	7,934	25,164	39,537	1,18,500
2. Area self-cultivated by the Proprietors	11,878	15,673	4,226	12,686	22,483	66,946
3. Percentage of 2 to 1	52.07	67.96	53-27	50-11	56.87	56.49
4. Area enlivated by Tenants-						
(a) Paying Kind rents-						
(i) Ordinary	4,669	5,790	3,636	3,732	6,431	21,258
(ii) Theka and Gugri	24	17	5	140	59	452
(b) Paying Cash rents-						
(i) Ordinary	281	504	25	913	1,675	3,398
(ii) Gugri and Theka	689	7G	€2	171	170	1,148
(iii) Halsara and low-rent- ed Barani	5,270	1,000		7,522	8,719	22,511
5. Percentage of 4 (a) (i) to 1	20:47	25:11	45.83	14.83	16.27	20.47
6. Do. of 4 (a) (ii) to 1	-11	•07	.06	.26	·15	-20 47
7. Do. of 4 (b) (i) to 1	1 23	2.19	31	3.63	4.23	2.87
8. Do. of 4 (b) (ii) to 1	3.02	•33	-53	•68	•43	-97
9. Do. of 4 (b) (iii) to 1	23·10	. 4*34		29.89	22.05	18.99
	100-00	100-00	100.00	100-00	100.00	100.00
10. Percentage of 4 (a) + 4 (b)	47.93	32.04	46-73	49-59	43.13	43.51

The year 1311 Fasli was taken, as in that year the last usual local six-yearly Jamabandi was drawn up. The figures for 1314 Fasli I have had specially compiled as showing the facts nearer to the present date.

This statement shows that of the total area annually taken into

holdings :— \

- 56 per cent, is self-cultivated by the proprietors. (1)
- (2) Some 19 per cent. to 22 per cent. is made up of halsara, and of stretches of course barani land, akin to the halsara.
- 21.5 per cent. to 25 per cent. only are what for the time *t*3) being may be called ordinary rented lands.

With regard to halsara lands, paragraph 31 of Mr. Whiteway's Final Settlement Report may be referred to. I need only add that the rates paid for them are still old traditional rates as entered in the records of past Settlements, and in no way represent anything approaching real or competition rents.

And as regards the stretches of course barani areas which, on similarity of conditions, have been included under this head halsara, the rents practically invariably represent merely the barani revenue rate on the These areas are, indeed, knewat land, but are those which the khewatdar allows another to cultivate on the payment by the latter of

the revenue only on it.

As, however, these barani areas are distinguishable from the halsara proper, and if we are to presume that Mr. LaTouche, in the statement in paragraph 217 of his report, included these revenue-rate-paying barani areas in, while excluding the halsara lands from the socalled tenants' area, we may, in order to establish a nearer comparison of past and present conditions, remove these khalsa areas again from the Roughly they occupy, I estimate, some three per cent, of the whole holdings area.

125. Including these revenue-rate-paying barani areas, then, the rented area now is some 24 to 28 per cent. of the holdings' area, as compared with the twenty per cent. of roughly at Mr. LaTouche's timean increase, in fact, is apparent. And an increase of course would naturally be looked for from a probable rise in population and the growth in the number of mortgaged holdings. But while the latter is no doubt real from the series of years of famines and distress since last Settlement, the increase in agricultural population has been very slight. The total figures for the whole Ajmer district, including urban and non-agricultural population, were in 1876, 3,09,914, and in 1901, 3,67,453,—ostensibly an increase of 18.56 per cent. But the bulk of this rise is claimed by the city of Ajmer, and the very large railway communities which have been attracted since the opening of the railway and the location of its huge workshops here: the increase outside the city in the rural areas is probably very slight. In the 1881 Census the recorded population was 3,59,288, so that the rise in the last twenty years up to 1901 has been, for city and all, only two per cent.

But, on the whole, if even it be presumed that Mr. LaTouches' figures refer to the same areas as those now given in the above statement, all that can be safely said is that, on the figures available, the rented area shows the natural tendency to increase, without having actually increased to any marked extent. It would seem to average now about onefourth of the total holdings' area as compared with one-fifth in 1874 lvide the opening portion of paragraph 6 of the Government of India's etter No. 417-42-2 of 26th February 1907, under reference.

Futher analysis of the tenants' area in the above statement exhibits also the relative unimportance of the cash rents. Eliminating gugri rents, with which have been classed a few so-called leases (thekas),

only some two-and-a-half to three per cent. of the whole holdings' area is under real cash rents. Gugri payments include other considerations, such as interest on debt besides the cultivatory rent for the land, and it is not possible to separate the rent from the total payment. The thekas are often more genuine rents, but they are in the first place practically all lump rents over mixed soils, and, apart from these rents themselves, there are practically no other areas for deducing the soil proportions by which to resolve these lump rents into soil rates. Secondly, even when analysed, they are usually found to express no more than the zahti rates which we know already under the heads "cash rents-ordinary" of the statement above.

These "ordinary" cash rents are, in fact, largely zabti or jinspher rents only—far maize and cotton only, nearly all ranging roughly round Rs. 2 per bigha or a little over. These rates are, however, with a few exceptions, old traditional rates only, and in some places they are alleged to be now much too low. On the other hand, in a few cases where higher rates have been imposed in recent years, the struggle is still going on, on the one side to collect, and on the other to resist, these rates.

In the eircumstances, therefore, such each rents as exist, apart from their covering only so minute an area, are, from either being obviously low or from not having yet reached that stereotyped stage at which they could be taken as established fair competition rents, not capable of being taken as the basis of rental values for the vast remaining area.

127. We are thus thrown back entirely to the kind rents. These I have had also separated into (1) those taken by mortgagees (gugri), and those in which the rent is paid in a xed numbers of maunds of grain without any relation to the actual total out-turn and (2) "ordinary" kind rents.

It is in these "ordinary" kind rents alone that we must find our guide to the prevailing accepted rates of rent. They cover some eighteen per cent, to twenty per cent, of the total holdings area.

eent. to twenty per cent. of the total holdings area.

The areas covered by these "ordinary" kind rents are now analysed futher in the following statement, so as to indicate the actual percentage of the produce taken by the landlords:—

## STATEMENT IX.

Showing Analysis of the Average Rent Rates in Kind, District Ajmer.

Statement Showing Analysis of the Average Rent

							]	311	FASLI							
lages.		1/	/2	2,	/5	1/	3		2/7		1/4		1/5	2	/11	To
No. of Villages.	Name of Circle.	Arca.	Share.	Area.	Share	Area.	Share.	Area.	Share.	Area.	Share.	Area.	Share.	Area.	Share.	Area.
1	2	3	4		6	; ;	8	9	10	11	12	13	14	 15 	16	17
14	$egin{cases} A_{ ext{jmer}} & egin{cases} Khalsa, \ Jagir, \end{cases}$	1,589 998	794·50 499·	5 899	2·00 359·60	1,925 124			•57	250	62.50	13	2.60			3,784 2,021
	/ (00811)		100		000 00				e of s	hare t	o total	)	a Khals	a.		2,021
									,,	_,,		,,	., Jag	i r		
33	Gang-   Khalsa,	164	82.	36	14.40	-				1,600	400		•••		•••	6,342
9	J wana (Jagir,	670	335.	•••			232.33		277.71		459.75	29	5·80		7.64	4,249
						į	Percen	tag			o total		a Khals ,, Jag	!		
9	(Khalsa,	 55	27.50			1,218	406			1,301	325-25		,, Jag 			2,574
9	Pushkar Jagir,	124	62.			5,741	1,913.67	•••		240	60.00					6,105
							Percen	tag	e of s	hare t	o total	are	a Khals	a.		
									,,	,,	,,		,, Jag	ir		
26	Rajgarh Khalsa,	j '					500.67			393	98-25		•			3,610
11	Jagir,	73	36.50	47	18.80	5,515	1,839.33	}		1,538	381.50	45	9.00			7,218
						'	Percen	tag	e of s	hare t	o total	are	a Khals	1		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<del></del>	(Khalsa,	1 480	740	18	7.20	3,447	1,149		,, <u> </u>	75	18:75	,, 	,, Jag	IP		5,020
17	Ramsar-	602	j	1,736	694.40		1			2,859	}	289	57·80		•••	6,170
				,					1	1	o total		a Khals	}		5,2.0
							(		,,	,,		,,	", Jag	ir		
139	( TOOM )	5,003	2,501.50	59	23.60	12,589	4,196.34	47	13.43	3,619	901.75	13	2.60	ļ		21,330
51	Distt. Jagir,	2,467	1,233.50	2,682	1,072.80	12,755	4,251.66	978	279.42	6,476	1,619.00	363	72.60	42	7.64	25,763
							Percen	tag	e of s	hare t	o total	are	a Khals	a.		ļ
									,,	,,	,,		,, Jag	ir		

XI.

Rates in Kind, District Ajmer.

							1311	FASLI.								
TAL.	<u> </u>	1/2	<u> </u>	2/5		1/3		2/7		1/4	] 1	/5	Ţ	1/6	r	OTAL.
Share.	Arca.	Share.	Aren.	Share.	Arca.	Share.	Area,	Share.	Анса,	Share.	Area.	Share.	Area.	Share.	Area.	Share.
18	19	20	21	22	23	21	25	26	27	28	29	30	31	35	33	31
1,503.84	2,166	1,083	38	15.20	2,298	766			167	41.75					4,669	1,905-95
899-93	884	442	611	256-10	90	30			21	5.25			2	•33	1,638	733-98
39.74																40.82
44.53														ļ   		44.81
2,008.26	139	69.50	31	13.60	3,793	1,264.33	25	7.14	1,799	449.75	١			1	5,790	1,804 32
1,318-23	539	269-50			528	176	1,068	305.1	1,356	339	36	7.20			3,527	1,096.84
31.66											}					31.16
31.02																31.10
758.75	25	12.50	•••		1,479	493		•••	2,132	533			-	•••	3,636	1,038-50
2,035.67	170	85.			5,480	1,826.67			68	17	1			•••	5,718	1,928-67
29.48																28.56
33.34																33.73
1,456.42	1,933	966.50	2	•80	1,458	486			339	84.75	•••	•••		•••	3,732	1,538.05
2,287.13	50	25.	1,111	441.40	4,969	1,656:33			1,487	371.75	116	23.20	ļ	•••	7,733	2,520.68
40.34																41.21
31.68																32.59
1,914.95	2,192	1,096	51	20.40	4,103	1,367-67	•••	• • • •	85	21.25	•••	•••			6,431	2,505.32
1,995.66	476	238	1,436	574.40	1,503	501	6	1.71	2,667	666.75	297	59.40	[		6,385	2,041.26
3815										,				ļ		38.96
32:34																31.97
7,642-22	6,155	3,227.50	125	50.00	13,131	4,377	25	7.14	4,522	1,130.50					24,258	8,792-14
8,536.62	2,119	1,059.50	3,188	1,275-20	12,570	1,190	1,074	306.85	5,599	1,399-75	419	89.80	2	.33	25,001	8,321:43
35.83										,	***************************************		-			36.24
33.14										i						33.28

Over the tahsil as a whole, on the area let, the laudlord's share amounts, it will thus be seen to roughly one-third of the out-turn. The share in the khalsa is higher in the aggregate than in the Jagir Estates—a natural phenomenon explained by the fact that the Jagirdars are for the most part non-residents, and have no further concern with the land or their tenants than the collecting of the rents from them, while in the khalsa villages the reverse is the case—the landlords are in the main residents, the fields let change from year to year, and the landlords are in many cases very directly concerned with the lands let, either from having themselves previously manured them, or from supplying manure or seed, or lending the use of a well or implements, or from giving some other assistance.

1

For these latter considerations the half produce rates taken do not generally represent the true rents alone. They represent the latter plus varying amounts for materials supplied or help given. These latter considerations must therefore be climinated. They absorb, as a fair all-round average, about one sixth of the produce: and the landlord's actual true rent in these cases is therefore more correctly one-third share only. Over the khalsa villages, therefore, the landlords' share as rent proper on the areas let may be taken as now given in the next statement:—

STATEMENT XII.

		1311 F	AFLI.		1314 1	Fasia.	Тотат.				
	Area.	Share.	Percentage.	Area.	Share.	Percentage.	Area.	Share.	Percentage.		
Ajmer	3,784	1,239	32.71	1,669	1,515	33 09	8,153	2,781	32-93		
Gangwana	6,342	1,981	31.23	5,790	1,781	30.76	12,132	3,762	31.01		
Pushkar .	2,574	750	29-14	3,636	1,034	28 13	6,210	1,781	28.72		
Rajgarh .	3,610	1,171	35 13	3,730	1,216	32 58	7,312	2,387	32:51		
Ramsar	5,020	1,668	33 22	6,131	2,140	33 27	11, 151	3,808	33-25		
Total	21,330	6,800	31.92	21,258	7,716	31.81	15,588	11,525	31.86		

Thus, in the gross, the landlord's share indicated is between thirty

and thirty-three per cent. of the gross produce.

The above results can, however, be regarded as very approximate only. As the figures required for this statement have not been previously recorded in these districts, it has been necessary to compile them field by field from the khasras, in which again, unfortunately, in many instances the entry as to the rate of batai taken had not been recorded. For these fields we have supplied the missing entries by taking what seemed to be the more prevalent rate in the village, but, of course, this process leaves room for error,

128. Over the tahsil (khalsa villages) as a whole, however, it is true as a general proposition, indicated and confirmed both by actual enquiries in the villages at inspection and by the village rent and area statements extracted for the purpose of the above three tables, that in the kharif harvest the barani crops pay generally one-fourth share of the produce, while the rabi crops under baran pay one-third. And it is in fact fairer to take these percentages, viz., twenty-five per cent. and thirty-three per cent. as all-round standards for calculating the owner's share in fair-rented fields according

to the prevailing rates over the tahsil as a whole. This I have done in paragraph 145, etc., in estimating the half net assets of the several soil areas.

### CUSTOMARY DEDUCTIONS.

129. The wajibularz of practically every village still contains provisions relating to the payments to the village servants and menials. But in practice, except perhaps as regards the village Balais, these provisions are now very largely a dead letter. Either the villagers pay when they think they can afford to, and then only the least that they think that the others will take and remain disposed to do their work and not boycott them in future; or, as the still resident village carpenter, blacksmith and other skilled workers will not work for nothing, the tendency is to pay these by the job, to fix the remuneration according to the labour involved in the particular piece of work in hand. That is, the village servants—and even the menials—have become or are fast becoming, mere occasional employés, no longer paid by fixed percentages on the harvest's out-turn or supported entirely by the general village community to pursue their own particular profession exclusively.

In short, "eustomary deductions" as such are disappearing, and

oceasional payments, or wages, are taking their place.

- 130. For these developments there are two main causes:-
  - (1) The recent series of bad years, and
  - (2) The opening of the vast railway workshops at Ajmer since Mr. LaTouche's time.

The harvests have been poor on and off for many years past and the eultivators have not had the surplus, over their bare needs to keep themselves alive, to pay over the old customary deductions in full: they have paid, or owed, for only just the pieces of work absolutely necessary for them to continue the agricultural operations, and, with the village menials and the village skilled servants still resident in the villages, have themselves sought support on the famine relief works. And the still-growing railway workshops with their thousands of employés and good constant wages in Ajmer have attracted to themselves very large numbers of operatives of all crafts and trades, so that the old skilled village servants are now as a class not dependent solely on the ordinary village work.

The data for estimating the proportion of the total produce paid to these village servants are very confusing. The payments are, of course, still generally made in kind, but the amounts stated vary very considerably. Often a cultivator would tell me one figure, while the village blackmith or other servant would, with an eye to establishing or forcing a precedent for future use, tell me another, and the new wajibularz has not yet been drawn up and attested. However, the commonest method (1) in which village dues are paid here is so much per plough to each person entitled to them. But (2) it is paid also by so many sheaves of grain and straw from the fields, or (3) at so many seers per maund of grain produced, or (4) at so many maunds or seers at each harvest irrespective of the actual amount of grain out-turn, while (5) in many villages a simple fixed cash payment is made; lastly (6), in many villages it is boldly stated that there is no fixed custom; payments are made according to the character of the harvost, the resources of the payer and the amount of work done.

Working on the data available, however, I find that my village-tovillage notes made during inspection show calculations giving proportions, where it is possible to work them out mathemetically, ranging from 2.5 per cent. up to 12.5 per cent. of the total out-turn per harvest paid as these village dues. The lower limit, however, is rare; the more frequent estimates are 7.5 per cent., 10 per cent and 12.5 per cent. On the whole some 10 per cent. of the total out-turn may be taken as the total expenditure by the villages upon village servants and menials in return for their ploughs, implements, etc., being kept in repair and order, for vessels supplied and for all other services rendered.

132. The whole of the above, however, is not paid from the threshing floor. The ordinary recipients of village dues are (1) the balai, (2) the kumhar, (3) the nai, (4) the lohar, or blackmith and (5) the khati or carpenter—the 4th and 5th being more often than not combined in one person. But, except in a few villages, it is only the balais now to whom payment is made from the common heap before the remainder is divided between the tenant and his landlord. And in many villages also even the balais are not paid from the common heap but by a eash payment once or twice a year from the village fund.

The rest of the servants are, except in the few villages referred to, now generally paid after the produce division where this takes place. The landlord pays his own quotum from his share and the cultivator pays his

dues from his share.

As regards the amount paid from the common heap, where this praetice obtains I estimate this to range from 2.5 per cent. to 5 per cent of the total out-turn. And presuming that it is paid regularly—which is, however, not always the case—I have taken the higher limit of 5 per cent, as the safe figure to take all round in connection with the calculation of the net half assets.

At the same time, it has to be remembered that as the vi'lage servants have not been paid already before the landlord receives his share; they have still to be paid by him ont of the actual share which he does receive. This payment, therefore, reduces pro tanto the amount from which he has to pay his land revenue. In any case we might well allow, for these after-payment also, a deduction from the gross produce or its valuation before calculating the net assets.

But in Ajmer-Merwara the income of the proprietors in khalsa villages from their tenants is, after all, a minor item in the total account: we have, in fact, to deal not with a body of middlemen landlords living on their tenants' rents, but with large bodies of indigent petty persant proprietors who, a few exceptions apart, depend wholly for livelihood on cultivation in a very precarious tract. In the circumstances we may, I think, without unduly favouring them, concede to these cultivating proprietory brotherhoods a deduction for each and every village and for the whole of it, of the full 10 per cent. (vide end of the last paragraph), from the gross produce on account of the total expenditure upon village menials and servants, before deducing the net assets on which to base our assessments. And this 10 per cent, deduction I have, in fact, made in calculating the net assets in paragraph 145 below.

#### BHUSA AND STRAW.

133. The custom as to bhusa and straw is, in general, that the cultivating tenant retains the whole of it. Here and there the landlord will take some part of it—and in some cases where half batai is taken, half of the bhusa, etc., also is taken, the landlord supplying seed, manner and the like,—but as a general rule it is not regarded as a part of the produce to be shared.

In Oudh and the portions of the United Provinces where, owing to the want of sufficient grazing lands, the staple diet for eattle is the bhusa and stalks of nowar and the like, the bhusa and straw and stalks have an acknowledged value of anything up to one-third of the price of the grain. In Ajmer-Merwara, on the other hand, as Mr. LaTouche remarked (paragraph 215 of his final report), "The value of straw and bhusa is" (still) "almost nominal." The majority of the villages have large grazing areas, which grows good enough grass, which is cut and stocked and the cattle are regularly fed on it. It is usually only the proximity of the

villages to large centres such as Ajmer and Nasirabad, where there are numbers of animals kept which cannot be supported by grazing or grass, that gives the bhusa, etc., any real value. From such villages the bhusa and straw is carried in small quantities, usually head loads, and its sale proceeds are a useful asset in helping to keep the villagers going through the seasons. But as Mr. LaTouche further remarks, the sale proceeds in the main "do not more than cover the wages of the carriers."

At the same time there are evidences that the value of the bhusa, straw and stalks is being more and more appreciated. In my inspections I came across villages quite removed from the bigger centres, in which the straw and bhusa were evidently a distinct asset to the people, as they in some instances complained that the Bunnias attached their stocks of stalks, and by depriving them of this supply of fodder made it difficult for them to feed their cattle. And in many villages this fodder is to be seen carefully stacked after each harvest time.

134. Examining the statistics of the crop-cutting experiments, and colleting the returns of ninety-five experiments conducted in twentynine different villages in the last ten years or so, I find that crops of which the grain out-turn was valued at Rs. 2,124 produced also bhusa, straw, etc., which was valued at Rs. 480. These figures put the value of the latter as 22.6 per cent. of the value of the grain—that is, roughly one-fifth. But 1 regard this percentage as much too high. The value of the straw and blusa, etc., was, no doubt, in each case estimated at a price which it was assumed would be obtained for it if it was sold under conditions in which there was a demand for it. But as already indicated, the proportion sold to the total is very small: there is no market for the vast remainder; it is only used to supplement the grass, and only really acquires a value when the gra-s supply fails. At the most, therefore, I would estimate the value of the straw and bhusa as some ten per cent. only of the grain value as an all-round general average—and this amount may be taken into account in estimating the total value of the gross produce of the whole tahsil. But no account can be taken of this straw and bhusa in deducing the net assessable assets, as they do not enter into the landlords' assets.

## YIELDS OF CROPS, AND STANDARDS OF YIELDS.

Crop experiments have been conducted in the districts since 1894, in the following crops: maize, eotton, barley, gram, gujai, gulchani, bejhar, wheat, and jowar. Their results I have had collated, and those for the Ajmer tahsil I now deal with.

In the first place they are considerably discrepant.

Thus for maize the experiments show yields per acre varying from 10 maunds up to 32 maunds for chahi lands, and from 3 maunds up to 30 maunds for talabi lands, per acre. Similarly, cotton varies from 6 to 14 maunds per acre for well lands and from 6 to 13 maunds for talabi lands; barley from 5 to 30 maunds on well lands and from 4 to 21 maunds on talabi, while it ranges round 5 to 6 maunds in abi lands; gujai shows yields of 12, 15 and 20 maunds on well lands and 4 to 11 maunds on talabi lands. For bejhar the records of only two experiments exist, one showing 6 maunds out-turn on talabi land, and one 43 maunds on abi soil, in two moderate villages of the Gangwana Circle.

Similarly, only one experiment for gulehani is recorded, showing 41/2 maunds of produce on tank soil in one of the above two moderate villages.

For wheat, I have the figures of two experiments only, one showing

12 maunds and the other 14 maunds of produce, in well lands.

For gram only one experiment exists, showing 2 muands of produce

per acre on abi soil.

For jowar the experiments are fairly numerous, but show yields of 6, 8 and 10 maunds on well lands and of 2 to 5 maunds on barani soil.

And even when the nature of each harvest, as recorded, is looked at, these crop experiments by themselves, with their discrepant results, do not enable one to determine with any confidence what may be taken as normal yields for crops. There is no doubt that the higher yields shown above are much too high to be taken as safe estimates of normal yields, while, on the other hand, the lowest yields are for several reasons much too low. Moreover, in the case of most of the crops listed above, the experimental instances are few only, and in none are they, I consider, sufficiently numerous to be depended on alone. We must, therefore, seek for additional data to supplement the indications given by these crop experiments.

136. The additional data available are (1) estimates furnished by the villagers themselves to me or my camp-clerk at the time of my inspecting the villages, and tabulated village by village for the majority of the villages throughout the tahsil, (2) certain estimates, or opinions, of a number of the more intelligent land-holders with whom I have conversed on the subject, and (3) estimates furnished to me by certain revenue officials who, I thought, from their powers of observation and practical experience of agricultural conditions in the tract, would be able to give a helpful opinion. The whole of course is supplemented by my own impressions formed by continued observations and enquiries.

With regard to these several data, in general the estimates furnished to me by the revenue officials were, in my opinion, pitched on the high level, and were in fact too high to take as safe all-round average normal yields; while on the contrary, those given to me by the landholders tended for the most part to be on the low level, being cautious statements

made to a Settlement Officer.

The first set of data, on the other hand, provide in the circumstances a reasonably acceptable set of estimates or opinions of real average capabilities. At any rate, they represent the opinions taken on the spot of a large number of cultivators, than whom no one else can have a more intimate knowledge at first hand of what out-turn their fields and crops usually give, and these figures were, in most cases at any rate, not hastily given, but in the end the figures recorded were those which the villagers were agreed upon after discussion.

In a few cases I have since rejected these estimates as too low where I found no adequate explanation for what, on comparison with neighbouring similar villages, seemed unduly low figures; but these cases are few, as I have in general preferred to let these actual estimates of the villagers themselves stand exactly as they were. These estimates have now been tabulated by circles, and form a most important material, corrected where necessary with the guide of the crop experiment results and the other

data referred to, for the figures of normal yields now given.

137. Thus, taking maize by the several circles, we find, in Ajmer circle, that two crop experiments gave yields of  $10\frac{1}{2}$  maunds on one field and  $14\frac{1}{2}$  maunds on another, both irrigated from wells.

The official estimates put the normal average yield on well lands at 20 maunds, and on tank lands at 15 to 20 maunds; on abi lands at 5 to

10 maunds and on barani soil at 2½ to 4 maunds.

On the other hand, two villages being eliminated, the collated figures recorded in my inspection note books give the following results, for average yield per average field per acre, for the remaining villages of this circle, viz., one village—a good one—records 17 maunds; two villages record 15 maunds; three villages record 12 maunds, and 4 villages record 10 maunds of maize.

Thus, from all factors we may assume the figure of 12 to 13 maunds

per acre of maize as an average normal yield for this circle,

In the Gangwana Circle, one village being rejected as too low and two others as too high, the general all-round normal yield indicated of maize per acre on average fields is 13 maunds on irrigated soil, while on abi or good barani soil in a favourable year it is 4 maunds.

In Pushkar Circle the indicated normal yield on average fields is some 14 maunds: in Rajgarh Circle it is a little under 14 maunds. In the Ramsar Circle, which is a large one, the all-round yield is 12 maunds: and in the better villages some 14 to 15 maunds.

Thus, for the district as a whole, some 13 maunds to 14 maunds may be assumed as a general "normal" yield per acre of maize on average

fields.

In like manner on average fields, a "normal" for wheat is 12 maunds in Ajmer Circle, 13½ in Gangwana Circle, 14 in Pushkar Circle, 13½ in Rajgarh Circle and 12 in the Ramsar Circle. For the district as a whole, that is, the normal yield of wheat per acre of average fields may be assumed to be some 13 maunds.

For certain other principal staple crops (abnormally high and low figures being eliminated), the similarly-deduced estimates of assumed normal yields per acre of average fields are as given in the following general statement:—

Statements XIII, showing assumed "normal" yields, in maunds per acre.

Grep	Ajmer.	Gangwana.	Pushkar.	Rajgarh.	Ramsar.	Crop Expriments.	Average for District, approximate.
1	2	3	4	5	6	7	8
Maize	12.50	13.00	14.00	13.50	12.00	Chahi 10 to 32·00 Talabi 3 to 30·00	13-20
Cotton	8.00	10.00	8.50	8∙50	9.60	Chahi 6 to 14.00	8∙80
Jowar	2.50	4.25	3.75	4.00	2.75	Talabi 6 to 13.00   Chahi 6 to 10.00   Barani 2 to 5.00	3.35
Til	1.75	3.00	•••	1.75	1.00	*****	1.75
Bajra	2.50	4.25	4.66	4.00	2.75		3.60
Mung	2.50	3.25	4.33	3.20	3.50		3.50
Kulath	2.50	•••		<b></b> .	•••		2.50
Moth	2.50	3.20	5.00	3.20	3.10		3.50
Urd	2.50	3.50		•••	•••		3.00
Wheat	12.00	13 50	14.00	13.50	12.00	Chahi 12 to 14.00	13.20
Barley	16.00	18.50	20.00	15.00	14.00	Chahi 5 to 30.00 Talabi 4 to 21.00	16.70
Gram	3.75	5.25	5.00	5.00	5.50	Abi 2.00	4.90
Gujai	16.00	17.00	20.00	13.50	14.50	Chahi 12 to 20.00 Talabi 4 to 11.00	16.60
Bejhar		5.00		5.00		Talabi 6.00	5.00
Zira		4.00				Abi 4.50 	4.00
Gardens,			25.00			••••	25.00

These yields, it must be remarked, do not express what produce may be given by special fields, heavily manured and extra-carefully tilled; they are intended to relate to average fields only. But, on the other hand, they do assume that these average fields are producing a fully-matured crop over the whole area, and giving the largest crop out-turn that they are capable of. This point is of great importance in connection with the question of the revenue rates to be adopted.

138. In the past, however, in Ajmer-Merwara (1) it has not been the custom to note the degree of maturity of each field or crop, or whether the whole area, or only part of it, has matured—the only distinction that

has been made has been in the case of a field on which the crop totally failed, in which case it was recorded as  $nab\hat{u}d$ , all others giving a crop, however little, being recorded as  $b\hat{u}d$ , without further specifications, (2) nor has it ever been the practice to refer the actual out-turn of a field or crop to a prescribed normal yield per crop per unit area. In the irrigation rules a "full average yield" of crops is referred to, and in the variable village assessment rules,  $\frac{3}{4}$ ,  $\frac{1}{2}$  and  $\frac{1}{4}$  crops are talked about; but there is nowhere any definition of what is a full crop, or what is a full average yield of each crop;—a fact which has caused recurring difficulty in the matter of suspensions and remissions, and led to varying, more or less rough-and-ready, expedients for getting over it.

Thus, though the Khasra in use does record, in addition to areas, the estimated out-turn of each field and crop area, from which, referred to any prescribed standard yield, the degree of maturity of any particular crop in any particular area could, of course, be worked out, yet the fact remains that the system at present in force has never worked on these lines

and no "crop standard yields" yet exist.

139. Had the past practice here been different in these two respects we might now at once accept the normal yields arrived at in paragraph 137 as "standard normal yields," and proceed to seek for revenue rates to fit these. But for such revenue rates to be really reliable we ought to have as a basis the real fully-matured areas for the several soils and crops of the years from the figures of which the net assets are to be deduced, and the rates ought then to be evolved from these net assets. And to determine these fully matured areas we must know the exact proportions of the total sown areas which year in and year out give crops that are up to the

fully-matured standards—that is, the exact fully-matured areas.

But, in local circumstances as they are, the only available material that the past record system of Ajmer-Merwara gives, furnishes no guide to these exact proportions or exact fully-matured areas. The only material that does exist consists merely of the figures of the nabûd and bûd areas and of the out-turns on the latter. And in the endeavour to extract some further information from these figures we may make a comparison of these areas over a series of years, and elicit that the proportions of the nabûd or totally-failed areas to the total sown areas have been, so far as recorded, 1 per cent. to 3 per cent. for the chahi and talabi soils, 5 per cent. to 16 per cent. for the abi soils, and 18 per cent. to 30 per cent. for the barani soils in the several assessment circles. But this after all carries us no distance towards these "fully-matured areas."

For, of course, all the remaining areas have certainly not given always fully-matured crops—nor have they all given equally-matured crops. A system of estimating kharaba, such as exists in the Panjab, for instance, would most certainly show an appreciable percentage of these remaining areas as also "failed," and indicate what percentage in each case, so that "fully-matured" areas could be worked out. It is just at this point, however, that the necessary information for Ajmer-Merwara is not forthcoming. In fact, there is nothing on record in the past to guide one to any estimate of the true "matured" areas on any soil.

And even if we were to attempt to make estimates of these. of the percentage of the total area sown on any soil that will ordinarily be fully-matured, over a series of years, so as to set up "standard matured areas," necessary for the evolution of rates to suit fully matured areas—yet, while the process of educing these would be difficult and lengthy, the accuracy of the results in the end could hardly be guaranteed. They would, in the absence of reliable materials, be little more than rough guesses. And "standard rates" based on these thus roughly estimated standard matured areas would necessarily be vitiated at their source.

140. As we thus have to give up this method—the only one directly based on the actual figures of the actual years from which are taken our half net assets which are to determine the pitch of the assessment—the

only other possible method is to take the "standard normal yield" of a fully matured acre of each crop, apply an average price, then to make the usual adjustments in the valuation thus obtained, and from the resultant left to strike a rate for the crop in question. This method is however, necessarily of the nature of piv-aller, and though with care reasonably reliable rates could thus be worked out, the same confidence could not be had in regard to their future actual effects and working, as in respect of rates based on the averages of large and extensive areas actually recorded for a number of years.

141. On the other hand, the actual material that is available will,

its limitations admitted, give results that are at any rate certain.

The existing Khasras for the past seventeen years (during which the present form of Khasra here has been in existence) give figures of "bud" areas and of the outturns thereon, which—as the revenue demand has not depended on these except to a very partial extent in the few variably assessed villages, and the patwaris have therefore had no motive for any general manipulation of them—may be taken as reasonably correct. At most, the recorded estimates of the produce outturn may in some cases have been pitched too low, or too high, by inexperienced patwaris. This latter possibility, however, need not be considered as having vitiated the figures to any serious extent.

Now, from these recorded figures over so long a period over the broad areas of the circles, the average outturns per "bud" acre for all

crops separately can be easily and certainly worked out.

Further as these "bud" areas in the aggregate include both fully matured, and partially matured areas of all degree of maturity and as their aggregate outturns similarly express the produce outturns of both fully and partially matured areas, averages deduced from these, therefore, already within themselves make allowance for the "partially matured" or "partially failed" areas included in the aggregate figures. If now a period of years be taken sufficiently long or sufficiently typical of ordinarily prevailing conditions, the average outturns deduced from the figures of this period will also contain within themselves allowance for all the ordinary degrees of partial maturity or partial failure that usually occur in the cultivated areas—at least, they do this for the period selected, and, it may be inferred, for the past generally if the period is sufficiently long or typical enough,—and it may then be reasonably assumed that the conditions of the future in Ajmer will over a similarly long or typical period resemble closely enough those of the past.

Next, rates based on these average outturns will similarly also already contain within themselves allowance for all the ordinary degrees of partial maturity or partial failure that usually occur in the cultivated areas over a similar period; that is, in a year typical of the period, such rates may be excepted to express at once over broad areas the full just revenue based on the outturn conditions and to require little or no

adjustment.

And, equally with the averages of the aggregate "bud" areas and their outturns, such rates can be easily and certainly worked out. It is merely a question of selecting the period from which the materials are to be taken.

142 For obvious considerations, I have taken a period of five years from which to work out the gross produce and net assets estimates, (vide paragraph 145 below) selecting five years in the last ten, viz.: 1304 Fasli, 1305 Fasli, 1308 Fasli, 1311 Fasli, and 1314 Fasli, which were, so far as one can judge from all the information available, reasonably typical fairly good years, or would give an average, as it were, reasonably typical of a fairly good year for the tract.

For these years the actual average "bud" areas have been worked out and have then been taken to divide the half net assets to give

half net assets rates per acre of "bud" area. At the same time, the average out-turns of these "bud" areas per acre per crop have been worked out.

Desiring, however, to test the figures both of the average out-turns and of the half net asset's rates given by these five years' figures, and to supplement those of the average out-turns in several cases of the rarer crops of which the five years' figures furnished either few instances or very small areas only, I have, as a matter of fact, gone also to the wider period of the sixteen years from 1299 Fasli to 1314 Fasli, and taking its jinswara statements for each of these years and eliminating all obviously abnormal entries, have had the average out-turns of all crops for this period also worked out.

These actual average out-turns of the five years' period supplemented or corrected by the figures of the sixteen years' period, are as now given in the following statement:—

STATEMENT.

## STATEMENT XIV.

Showing proposed "Standard Average Yields" of Crops in maunds per "bud" acre.

	per aer	d Average of Bush and Ne	d area t Asset	(vide G	ross Pr ments	years oduce		Pro	pose	d Sta		rd Av		go Yie rea,	olds )	per a	cre	•
CROP.	Ajmer.	Gangwana.	Pushkar.	Rajgarh.	Ramsar.	Whole District.	Aimor		Gangwana.	9	Pushkar		Rajgarh.		Roment		Whole District.	
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mas.	Srs.	Mds.	Srs.	Mds.	Srs.	Mds.	Srs.	Mds.	Srs.	Mds.	Srs.
Maizo Cotton Jowar Bajra	7·56 6·76 2·89 3·82	9·45 5·82 2·31 4·11	10·24 6·93 2·48 3·34	8·44 6·74 1·90 3·13	9·43 6·89 2·85 2·16	8·95 6·69 2·53 3·42	8733	  35	9 6 2 4	20  20 	10 7 2 3	10  20 10	8 7 2 3	20  5	9 7 3 2	20  20	9 6 2 3	30 30 30 20
Til Mung Kulath Moth	1·48 3·15 2·41 1·53	1:32 2:31 1:83 1:49	2·96 1·34 2·27 1·92	1.26 2.15 1.15 1.79	2·04 2·01 1·76 1·52	1·59 2·36 1·78 1·68	1 3 2 1	20 5 20 20	1 2 2 1	15 10  20	2 1 2 2	20 10	1 2 1 1	10 10 20 30	2 2 1 1	30 20	1 2 1 1	20 10 30 25
Urd Wheat Barley Gram	6.67 12.13 13.61 4.41	13·17 13·29 3·62	3·86 8·93 9·79 4·22	2·45 10·59 11·62 3·79	3·33 8·27 10·95 4·46	3·94 9·48 12·00 4·07	3 12 13 4	20 5 25 15	2 13 13 3	20 10 25	3 9 10 4	20  10	2 10 11 3	20 20 30 30	3 9 11 4	10  15	3 10 12 4	10
Gujai           Bojhar           Rico           Zira	15·S3 7·75 18·50 1·52	13·11 6·79 4·68 3·45	9·90 4·40 7·02 9·04	13:06 6:96 8:44 6:88	12:58 7:53 10:18 3:56	13·23 7·02 7·63 3·67	15 7 10 1	30 20	13 6 5 1	5 30  20	10 5 7 1	20	13 7 8 1	5  20	12 7 10 1	25 20  20	13 7 7 1	10
Gardens Sugar-cane Melons Rajka	25·95 8·10 57·27 35·03	5·00 17·40 10·29	11.92 8.04 40.00 14.00	2·58 46·94 12·16	5.6± \$2.44 9.88	24·16 8·06 48·06 15·31	25 8 55 30		5 8 17 10	20	12 8 40 14		3 8 40 12		5 8 32 10	20	24 8 45 15	
Red pepper Tobaceo Rosos Linseed	19·46 19·61 7·17	11.63	12·57  7·80	16·81 2·00 2·77	25·78 4·79 2·00 1·41	18·10 18·61 6·30 2·10	19 19 7 1	20  20	11 5 2 1	25  20	12 5 2 1	25  20	17 5 2 1	20	25 5 2 1	20	18 10 5 1	 20
Gulehani Indigo plant Poppy and Tijara Vegetables	10·21 7·24 22·40	7.75  19.51	2·25  11·22	12·78 4·94 22·65	5:37 :56  18:43	8.86 6.38 20.49	10 7 3 20	10 30 	7 5 3 19	30 30	6 5 3 12	30	12 5 3 20	30	6 5 3 18	30	9 6 3 18	30
Dhaniya Metlii Onions Lahsan	17 <sup>:</sup> 83 20 <sup>:</sup> 27	2:04 21:01	 	12:44 30:00	4.63 82.70	5·20 38·61	5 5 10 15		5 4 10 15	20 	5 5 10 15		5 10 15	:::	5 4 10 15	20 	5 10 15	
Singhara San (Hemp) Sarson Gajar	4.00 13.20 17.83	8·42 •85 15·62	1.87 6.17 24.56	2·24 8·74	4.67 3.46 4.00 15.74	4·50 2·47 2·76 15·21	4 2 3 18		4 2 2 16	20 	4 2 3 24		4 2 2 10	10	4 2 3 16	20	4 2 2 15	20 20 
Kangni Gwar Chanaula Marua Others	12.88 2.75 1.33 7.47 5.68	8·85 2·67 3·75 7·27	3·76 ·72 18·82 11·97	2·55 1·54 6·71 3·30	2·16 1·79 9·20 12·10	12.88 2.60 1.49 8.39 7.23	3 2 1 4 5	30 20 20 20	3 2 2 3 7	30  20 10	3 2 1 4 11	30 20  10	3 2 1 4 3	25 20  10	3 2 1 4 12	20 30 	3 2 1 4 7	20 25  10
				4 1			1											
1. Bejhar when gro	wn wit	h Irriga	ation	•	•••		12		12		12		12		12		12	
2. Gram when grow	n with	Irrigat	ion	• ••	•••	•••	10		10		10		10		10		10	
3. Jowar, Bajra, Irrigation		, Mun	g, &o., 	when	grown	with	9		9		9		9		9		9	
4. Til, when grown	with I	rrigatio	on	• •••	•••	•••	6		6		6		6		6		6	

143. These figures, at any rate, represent averages of actual figures which, as already indicated, may be taken as reasonably reliable. They relate admittedly to the local bûd areas only; but for this very reason they already closely reflect the actual conditions of cultivation that prevail in an ordinarily averagely good year. Further, the bûd areas from which they are worked out allow of definitely reliable rates being worked

out also, to fit in at once with these average out-turns.

For working out the "standard normal yields," on the other hand, (paragraph 137) the materials are neither so full nor so certain while they leave much more room for error—the crop experiments that already exist, relate to very few crops only, and, with the whole two districts to survey, to prepare new maps and records for, and to inspect and assess, apart from reallocating its patwaris' and Girdawars' circles and drafting sundry sets of new rules, within the time sanctioned for the current operations, we cannot delay matters further in order ourselves to carry out a series of experiments in regard to the rather large number of remaining crops. And even the estimates taken from the villagers of the crop outturns are not so certain as are the above average outturns of the bud areas, the individual estimates of which were recorded at the time with the actual field and crop in front of the pawari.

But even when worked out, these "standard normal yields" are of no practical use unless we have rates to fit them. Such rates, however, owing to the impossibility of getting the real matured areas, it is impossible to work out here in the same reliable method as that by which we can work out rates for the bud areas. And even if worked out in any other way—e.g., by the method indicated in paragraph 140, there still remains the fact that these "standard normal yields" and their high correlative rates would fit the actual conditions of perhaps never a single

year or, at most, of one now and again only.

On the whole, therefore, I propose to take these actual average outturns given in paragraph 142 as "standard average yields" and to use, in conjunction with them, rates which have direct reference to them, in making the assessments—instead of the "standard normal yields" of paragraph 137, with higher rates relating to 'fully-matured' areas. These "standard average yields" and their rates relating to the bûd areas will require no manipulation of the areas such as the higher "standard normal yields" and higher rates might require,—the ordinary bûd areas and their outturns as recorded will be taken direct as they are, no adjustment is needed; and they should reduce the calculation work otherwise to some extent also over the large number of assessments that will have to be worked out at every harvest under the general fluctuating system proposed: they will, in fact, help very largely to put that system on its simplest basis.

This is, of course, the possible objection to these "standard average yields" and their rates, from the Government point of view that these, being fixed with reference to aggregate bild areas only, which include in themselves many areas which were only partially matured, are unduly moderated for good years and will in such good years cause a loss of some revenue as compared with higher rates fixed with reference to "fully-matured" areas and "standard normal yields." And the objection is certainly true. But in the first place these "standard average yields" and their rates on the bûd areas have not been fixed merely with reference to an aggregate average of good and bad years alike -vide paragraph 142—they themselves represent the figures of fairly good years. Good years better than these are comparatively very few in Ajmer-Merwara, vide again the statement of harvests given in para. 36 above of this report, so that the loss would not be very serious over a long period. But some slight loss even being admitted, it is not a dear price to pay, I think, for the practical advantage of the all-round greater simplicity of the system proposed with its "standard average yields" and rates working on the ordinary  $b\hat{u}d$  areas and causing no disturbance in the existing practice as

regards the Khasra, as compared with a system of higher standards working on more concentrated areas, requiring further and novel adjustments, and complicating the work of assessment.

### THE GROSS PRODUCE AND NET ASSETS.

To come now to the Gross Produce and Net Assets Estimate (vide paragraph 117)—the character of the harvests of the five selected years were as follows:-

Year.		Kharif.	Rabi.
i304 Fasli	•••	Fair	Good average.
1305 ,,	•••	Good average.	Fair.
1308 ,,	•••	Good	Fair.
1311 ,,		Moderate	Good.
1314 ,,	•••	Good	Fair.

As reference to the statement in paragraph 36 of this report will show, there was very little room for choice in view of the fact that we are proposing an all-round fluctuating system of assessment.

The detailed gross produce and net assets estimate statements, for the circles and for the district, being bulky, are attached as an Appendix XV, A to F. For the present purpose of ready reference, I extract therefrom the following main figures:-

STATEMENT XV.

1	2	3	4	5	6		7		8
Cincle.	Annual Average Gross Produce, (Maunds).	Valuation at Retail Prices.	Valuation at Retail Prices reduced 20 per cent. with further 10 per cent. deduction for Menials etc.	Land- lord's Share = Net Aesets,	Half Net Assets.	Ha Asse "Bud	dence of alf Net ts on the " cropp creas.		Incidence of Half Net Assets on cultivated area,
***************************************	168.	Rs.	Its.	Rs.	Its.	Re.	Rs. A.	ν.	Rs.
Ajmer	1,31,473	3,84,506	2,76,844	86,764	43,382	2.09	2 1	6	2.04
Gangwana	1,30,322	3,66,321	2,63,752	82,582	41,291	1.75	1 12	0	1.68
Pashkar	29,149	92,020	66,254	20,721	10,360	1.91	1 14	G	1.84
Rajgarh	1,24,606	3,88,782	2,79,923	89,705	44,853	2.05	2 1	0	2.02
Ramsar	2,53,079	8,23,012	5,92,569	1,91,207	95,603	2.39	2 6	0	2.54
Total Distt.	6,68,629	20,54,641	14,79,342	1,70,979	2,35,489	2.11	2 2	0	2:11

The reductions in column 4 of this statement, of 20 per cent. for the excess of retail prices over harvest prices, and of 10 per cent. for customary deductions are in accordance with the proposals in paragraphs 121 and 132 respectively. And the landlord's share, that is, the value of the hypothetical amount of the divisible gross produce which would represent the landlord's income if the whole cultivated area were let out to tenants is calculated in accordance with what has been said in paragraph 128.

A full 50 per eent. of this landlord's share for the whole Ajmer Khalsa area is Rs. 2,35,489: and on the assumption that the landlord's share, i.c., the net assets, had been completely accurately estimated and that we were dealing with solvent large-landed proprietors, the Government might insist on this sum of Rs. 2,35,489 as the total annual State Demand for a year whose conditions approximated closely to the average prevailing conditions of the above five selected years.

We cannot, however, contemplate, even for these years, so high a revenue demand as Rs. 2,35,489 for Ajmer-Merwara. The net assets of Rs. 4,70,979 have been calculated with all the care, in the examination of the statistics in the several steps of the process, that was pos-Nevertheless, the process rccessarily sible in the circumstances. proceeds on a series of assumptions which still leave room here and In the matter of the prices applied for the valuation, for instance, great caution is necessary, and in view of the comparatively high figure given by the deduced net assets, it is only prudent to leave some further margin here for safety. Further, owing to the want of their systematic record in the past, the kind-rent rates which have had to be assumed for estimating the landlord's share, are not necessarily absolutely certain. Moreover, the total aggregate area under these kindrents amount only tosome 18 per cent. to 20 per cent., less than one-fifth, of the whole area to be assessed, and we have to apply the inferences from this small area to the whole of the large remainder, some eighty per cent. of the whole area; which is not area from which capitalist proprietors derive their income from the rents of tenants, but is, nearly all, area under the self cultivation of large bodies of indigent petty peasant farmers struggling along from year to year; for whom in the United Provinces at least (e.g., rule 26 of the Board's Circulars I-XV) an allowance is usually conceded of a deduction up to twenty-five per cent. from the valuation of their lands actually self-cultivated when valued at the rates of their tenants' rents.

The incidence indicated by these half net assets on the cultivated area is also somewhat high, viz., Rs. 2:11 for such a tract, as noted by Mr. LaTouche at last Settlement in paragraph 277 of his report, even in the good years selected. The present average total cultivated area of these five years, as taken from the yearly Milan-Khasras is 1,11,326 acres, of which only 25,302 acres are chohi and talabi: that is, the present percentage of irrigated to cultivated area is now even less, viz., 22:73 per cent. only. And in some tracts of the Mainpuri district which I personally assessed just before coming to Ajmer, I see that in one, with over thirty three per cent. of the cultivated area under irrigation, the incidence of the new revenue imposed was Rs. 1.70 only, while in another with over sixty-seven per cent. under irrigation, the incidence was only Rs. 182. These new revenues were, of course, fixed assessments for a period based on average conditions, but the bulk of the irrigation is supplied from the comparatively certain source of the Ganges Canal, and conditions are in the latter tract at least fairly stable, so that a high average is maintained.

On general considerations, therefore, this strict half not assets figure of Rs. 2,35,489 must be obviously lightened before we can fix a standard of assessment.

147. The current revenue, exclusive of a small amount for Sayar profits, and of the cesses, is in round figures, Rs. 1,65,000. This was, however, assessed with reference to a fixed system for an average of good and poor years over a period. But taking its revenue rates, village by village and circle by circle, and raising them by twenty per cent.—the measure, roughly, of the general rise in the value of agricultural produce since last Settlement, ride paragraph 123—and applying the resultant enhanced rates to the pre-ent average cultivated area of the five selected years (Appendix XVII), we obtain the figure of Rs. 1,81,861 (roughly Rs. 1,82,000), as the revenue that would be given by present average cultivated areas at the last settlement rates enhanced by twenty per cent.

Now, it being presumed that the last assessment rates were fair ones at the time, and that we have now correctly estimated the real rise of prices of produce at some twenty per cent. or a little over, a fair revenue in a year which has detailed soil areas under cultivation of the same kind and extent as the averages of our five selected years, would be this figure of Rs. 1,82,000 or thereabouts, with better years than the average of our five

scleeted years giving a higher sum than this, and poorer years giving a lower sum.

This figure of Rs. 1,82,000 is roughly forty per cent. of the full net assets of paragraph 145—to be exact, this forty per cent. of Rs. 4,70,979 is Rs. 1,88,391.

Distributing the not assets according to the several classes of holdings in Statement X of paragraph 124, and making an allowance on the proprietors' self-cultivated or unrented areas by taking only three-fourths of their full half assets we get the following figures:—

	Area.	Percentages.	Proportion of Net Assets.	Assessable.
(1)	Tenants' area under dinary kind rents.	or- 20 per cent.	Rs. 94,196 (@ 50 per cent.)	Rs. 47,098
(2)	Proprietor's self-cu vated and unren	- 1 - 77	" 3,53,234 (@ 50 per eent})	,, 1,32,463
(3)	oreas. Other areas	5 ,,	,, 23,549 (@ 50 per cent).	,, 11,774
	Total	100 "	4,70,979.	1,91,335

That is, making a liberal reduction, on behalf of the petty peasant proprietary communities of the district, from what we might otherwise take, if we were assessing only ordinary single or joint zamindari Estates, but making no allowance for any margin of safety such as is referred to in paragraph 146 above, we obtain the figures of a little over Rs. 1,90,000, as the revenue indicated.

148. In 1312 Fasli (vide Statement IV, in paragraph 37) a total sum of Rs. 1,97,241 was collected as revenue and in 1301 Fasli, the large sum of Rs. 2,09,908. The latter year was for the tract a good one: 1312 Fasli was not particularly favourable. As compared with these figures of actual collections, a Jama of Rs. 1,82,000 to Rs. 1,88,000 may perhaps seem moderate for years of the character of the five selected years. But in the first place, the collections noted were made under the pressure of large outstanding arrears to be recovered, and do not profess to have been based on the actual out-turns of those particular years, and were possibly entirely out of any real relation to them. Further, 1301 Fasli was a year of very large areas, while 1312 Fasli was also above the average in this respect-

And the areas of the present five selected years, though above the recent averages, still leave room for expansion. The average chahi area, for instance, of this five-years period is still 17,084 acres only as against 18,263 assessed at last Settlement for a fixed assessment, while the talabi area is similarly low, 8,218 as compared with 9,153; and generally the present average total area is 1,11,326 only as compared with 1,20,760 acres which Mr. Whiteway took as his directly assessable area. 1301 Fasli, with a recorded cultivated area of 1,21,465 exceeded even this.

But lastly the total actual collections for the five years, 1304, 1305, 1308, 1311 and 1314 Fusli (vide paragraph 37) averaged only Rs. 1,34,000; while, in addition to all else, there are always fairly large Taccavi Advances to be recovered over and above the current revenue, and also a considerable amount of interest on debt to be met by these petty proprietors.

In all the circumstances of the tract, therefore, a standard of forty per cent. of the present calculated net assets will be certainly sufficiently high to take, and in fixing the actual crop rates which are now proposed for sanction, I propose ordinarily not to exceed this general standard.

149. For working out the rates, the various crops have first been arranged in Appendix XV, according to the crop class now proposed;

and, then, in each case the residue of the valuation of the gross produce, after all adjustments made to give the average half net assets of the crop in question, has been divided by the so-called matured, i.e., the local bûd, area. This area we have had to take for the reason already explained, viz., that it was not possible to find the figures of the more concentrated fully-matured areas.

In order to test the results given by these five years in Appendix XV, I have taken also the detailed Jinswara entries selected for each Khalsa-village over the whole district for each of the sixtern years 1299 to 1314 Fash treferred to in paragraph 142), and have had their half net assets, as it were, and their bûd area incidences worked out in exactly the same way. Lastly, I have also taken the aggregate Jinswara statements of the fifty Jaghir villages for the past twelve years for which these statements exist, and similarly worked out from their actual figures their half net assets and incidences.\* I append therefore all three sets of incidences for comparison:—

\*Vide Appendix XVIII.

### STATEMENT XVI.

	.Vi	ner	Circ	le.	Gan	gwai	na Ci	rele.	Pu	shka	r Ci	cle.	Ra	jgarl	h Cit	cle.	R	msa	r Cır	clc.	To	tal I	Distri	et.
Period and Des- cription.											CRO	OP C	LASS	BES.									,	
	1	11	111	Total.	1	11	111	Total.	1	11	111	Total.	1	11	-111	Total.	1	11	111	Total.	1	11	111	Total
1	2	8	4	5	6	7	8	9	10	11	12	18	14	15	16	17	18	19	20	21	22	23	24	25
g b years actuals  E 16 years selec-	419	1-61	•71	2 00	376	1 31	•62	1.75	3.20	1-41	•60	1 91	3 71	1:47	•55	2 05	3 67	1.88	-64	2.30	3 78	1.58	•64	2:11
臣 (16 years sclee- ted.	4 23	1.46	1 05	2 39	3 79	1.35	·87	1-94	4 22	1.84	·71	1.93	3 77	1 28	.02	2 29	8 73	1.64	181	2.43	3.86	1.44	•89	2 26
Jagir, 12 years actuals.			-			-	-	-	-	-		-							-		3.83	1 54	71	2.15

Allowance being made for my having evidently assumed too high a standard of cut-turn in selecting the entries from the Jinswara statements for the sixteen years, more especially in respect of the dry crops on barani soils, and for having deducted only five per cent. for "customary deductions" for the Jaghir villages, these three sets of incidences agree very closely; and the two checks, viz., the sixteen years' selected Jinswara entries and those of the Jaghir villages confirm, I think, the correctness of the net balf assets and their incidences in Appendix XV.

150. Appendices XV and XIV have, apart from the rates, another interest also in shewing the crop developments which have taken place since 1874; these though small yet exhibit a real tendency towards substitution of the more valuable and irrigated crops for the less lucrative crops. Thus, cotton and maize have increased largely in the kharif harvest, while wheat, both alone and in combination, and gujai and bejhar have increased in the rabi; while bajra, jowar, mung, moth, etc., have all declined. And the average total rabi area is also now over thirty per cent. as compared with twenty-seven per cent. then.

The percentages of the total area held by the several crops are as now given in the following statement:—

## STATEMENT XVII.

Showing Percentages of Five years' Average of the Geops grown, by Gircles, in District Ajmer (on matured a cas).

					1					-	
₹	Cnor.			.Vjnier	ingana.	Pathkar.	Rijarh	Runeir	Whole Destrict.		Verse of 14
<u> </u>	1				·	' <del>-</del>	) <u>22</u>		7	;	9
				<u> </u>			Í	<u></u>		1	
CLASS I. A.—					1			i			1
Sugar-can	e	•••	•••	17		1.90			12	1	.12
Melons		•••	•••	23			f .				-01
Lucerne	•••	• • •		0.3			-(1)			1	
Red peppe	er	• • •	•••	.03		. 08	()				108
Tobacco	•••	• • •	•••	111		•••		-01	: .02	•95	•••
$\mathbf{R}$ ose $\alpha$	•••	•••	•••	.01						10.	-10
Gardens	•••	• • •	•••	.36		1 -12	.01		•07	, (	
Total of Class	1. A	•••	•••	1.00	111	2.18	·::1	•12	.40	•63	.33
Crace T B						1			,		1
CLASS I. B				9.70	7.98	; □ 4•30	13.08	15.70	11.88	6 33	11.26
Maize Cotton	•••	***	***	5.75							
	•••	•••	•••	1 "	}	1 .02		1		!	
Linsced Wheat		***	•••	2.23	1.22					1	3.43
	•••	• • •	•••	15.66	,			13.86		11.91	
Barley	•••	•••	•••	1	10.01					5	
. Rice	***	•••	•••	05			-			•	
Gulchani	• • •	• • •	***	,	, 20	1 00	06			į.	•••
Indigo	•••	•••	•••	31	11:		3		1		-::
Vegetable		•••	•••	.77		.19					.03
Methi	•••	•••	•••	03			10				
Zira	• • •	•••	•••	10							
Gujai	•••	•••	•••	2.37	•		2.78				2.23
Lahsan	•••	•••	•••	.03	·01	•••		101	10.	• • • • •	•••
Singhara	***	**1	•••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	•••	1	• • • •		•••
Dhania			•••		••		•••	,			01
Poppy sce	ds and	heads	• 1 •	]				{		.06	.01
Total of Class	I. B	•••		37.04	33-08	35 05	44-13	51:01	43.63	29.72	43.93
Grand Total o	f Class	s T	•••	38.01	33-22	37.23	11.61	54-13	44.03	30.35	41.26
										·	
CLASS II								0.50		7.04	3.40
Bejhar	***	•••	•••	.71	3.92						
Gram	•••	***	•••	4.18	8.28			6.12	6.18	7.29	6:97
Hemp	•••	• • •	•••	•••		.07		•••			٠
Mustard	•••	•••	•••	.03	.02				-11		.02
Carrots	•••	•••	•••	.10							
Others	•••	•••	• • •	.80	.03	.21	•34	-28	33	-51	1.19
m ( ) 0 m	**			1	72.00		10.13	2.02	0.00	0.71	10.00
Total of Class	11	•••	•••	6.12	12.30	5.75	10-11	8.93	9.20	9.15	10.87
Cries TTT						l	i				
CLASS III.—				10.45	20.00	0.70	10.10	07.00	01.10	99.45	01.50
Jowar	•••	• > •	•••	18.18		i .					
Bajra	•••	•••	•••	19.92		•		1		1 1	11.41
Mung	•••	• • •	•••	6.00							89
Moth	•••		•••	6.66		23.06	3.13	1.30	,		
Kangni	•••	•••	•••	*21			0.04	0.00	-03		
Til	•••	•••	•••	8.16			,				
Gwar	•••	•••	•••	.77		-02				ì	
Chanola	•••	•••	•••	25	.03	05			.05		
Marua	•••	••	•••		•••		.01			01	
Kulath	•••	•••	•••	.11	.01	-03					
$\operatorname{Urd}$	•••	•••	•••		•••	-10	-61	-01	- 01	14	.03
Total of Class	III	•••	•••	55.81	51.18	57:02	45.25	36.91	46.77	59.50	44.87
Total District			•••	100:00	100 00	100-00	109-0	100-00	100.00	100.00	100.00
				`		i					
PERCENTAGE C							0	-0-			
(a) Khari			•••	72.58		66-16				72.49	
(b) Rabi (	rops	•••	•••	27:42	29.79	33.54	30-14	31.89	30:36	27:31	31.83
	TY:	'stel		100.00	100-0	100.00	100.00	366-00	100.00	100.00	10000
	1	'otal	•••	100-110	100-01		100.00	106.00	100.60	<b>10</b> 0 00	[H194]]
						· :	, '	•	•	5	

	Soil.		Areas assessed.	Revenue.	Average Rates.
Chahi			Acres. 5,172	Rs. 23,583	Rs. A. P. 4 8 11 (4·56)
Talabi			166	659	3 15 6 (3.97)
Λbi			1,226	1,606	1 5 0 (1.31)
Barani			16,000	7,022	0 7 0 (.41)
	Total		22,564	32,870	1 7 4 (1:46)

152. In the actual rates for each individual village there must be some appreciable diversity. But for the present purpose of a set of general average rates for the circle, I think that for it as a whole the proposed general standard of forty per cent. of the net assets (paragraph 148) will leave a sufficiently adequate margin, and, in fact, in view of the quality of its better villages and its exceptional position, even a somewhat fuller percentage of the assets may be taken.

The half	net assets						
Crops.	50% Net	Assets.	Incidence.	shown	on the	margin	in

	Çı	rops.		50% Net Assets.	Incidence.
I.		•••	•••	Rs. 33,066 2,041	Rs. 4·19 1·61
III.	•••	•••	•••	8,275	.71
		Total I	Rs i	43,382	2.09

shown on the margin in detail, with their crop class incidences on the average matured (bûd) cropped areas.

On the average cultivated area (21,295 acres) of the five selected years, the incidence of these half net assets is Rs. 2.04, as compared with Rs. 1.46 of the current fixed revenue, and with Rs. 1.69 which would be the incidence of the revenue (Rs. 36,183) on the present cultivated areas (21,295) given by the last Settlement rates raised by twenty per cent. (ride Appendix XVII).

This sum of Rs. 36,183 represents some forty-two per cent. of the total net assets (Rs. 86,761). Forty per cent. exactly of the latter is Rs. 34,706, the incidence of which on the present average total cultivated area is Rs. 1.64.

Taking forty per cent. only of the net assets, we get the following figures:—

CROF CLASS.			Half Net	Assota	FORTY F NET A RATES	lase1	S		Bud			
CROP (	CROF CLASS.		Incide		Decimals, annas and pies.				cropped areas.	Revenue.		
I.			4:19	int.	Rs. =3:35	Rs.	A. 5		7,895	Rs. · 26,522		
11.	•••	•••	1.61	Reduced by 20 per cent.	=1.29	1	5	0	1,269	1,666		
III.	•••	•••	.71	20 Ped	= .57		9	0	11,587	6,518		
Tot	ากใ	•••	2:00		1.67	1	10	9	20,751	34,706		

Or, taking the rates in round figures, viz., Rs 3-6-0, 1-5-0 and 0-9-0, we get a standard revenue of Rs. 34,830.

These crop-rates give the following soil rates (in round figures) on the net cultivated areas:—

,	Se	)1L,		Areas in acres.	Soft Ra	Ru	nee s at	 S,	Revenue.	Last Settle- ment rates + 20 per cent.
					Rs.	Rs.	۸.	Р.	Rs.	Rs.
Chahi		•••	•••	4,586	5:31	5	5	0	24,363	5.47
Talabi	•••	•	•••	231	4.70	1	11	0	1,083	4.77
Abi	•••	•••		1,214	1:50	1	5	0	1,821	1.57
Barani		•••	•••	15 264	.20	0	8	0	7,632	•58
								_		<u> </u>
		Total	•	21,295	1.64		ļ		34,899	1.69

At the end of this set of figures the last Settlement rates enhanced

twenty per cent. are shewn for comparison with these soil rates.

Taking, however, some eighty-four per cent. of the net assets, that is reducing these by one-sixth only instead of by one-fifth, we get the following figures:—

				Half net	Half net ass reduced 1				
-	Cr	OP CLASS	S.	assets Incidence. Decimals.		Rupees, annas and pies.	Areas.	Revenue.	
				R4.	Rs.	Rs. A P	Rs.	Rs.	
	I	•••	•••	4.19	349	3   8	0, 7,895	27,633	
;	$\Pi$	•••	•••	1.61	131	1 5	0 1,269	1,666	
	III	•••	• • •	71	-60	0 10	0 11,587	7,241	
		Total	•••	2 09	1.74		20,751	36,540	

and these rates of Rs. 3-8-0, 1-5-0 and 0-10-0 give the following soil rates:--

	~		Arca	Soir	RATES	IN		
	Soil.			Decimals.	ecimals. Rupees annas and pies.		nas	Revenue.
				Rs.	Rs.	Α.	P.	Rs.
Chahi Talabi Abi Barani	•••	•••	1,586 231 1,214 15,264	5·51 4·80 1·60 ·54	5 4 1 0	8 13 10 8	0 0 0 9	25,269 , 1,109 , 1,942 8,242
	Total		21,295	1.71	•••			36,562

These soil rates are slightly higher than those of last Settlement raised by twenty per cent., but this fact is not important as our rates are intended for a fluctuating assessment with reductions for deficiency of area or out-turn.

On the whole, for the present, by way of provisional standards in fixing the rates for the individual villages of the circle, I propose to take for this circle the following average crop rates, per acre:—

Rs. 3 8 0 for Class I crops (ordinary).

,, 1 5 0 for ,, III ,, 0 9 0 for ,, III ,,

with the following special rates (average) for certain of the crops of Class I(A):—

Rs. 6 0 0 for sugarcane.

,, 7 0 0 for melons, red pepper, tobacco, garden produce and roses and lucerne.

I include lucerne here among the higher-rated crops as in this circle it is largely grown for sale as a source of profit and not merely for the cultivator's own cattle. These special rates are based on the high actual incidences on these crops (vide Appendix XV).

These rates will give, in a round sum, some Rs. 36,000 per annum in fairly good years on present areas of cultivation and irrigation; but this sum will be liable to reductions for exemptions for new wells which I am not yet able to estimate.

153. The Gangwana Circle.—The principal figures of this circle are:—

	Soit.		Average area of 5 years.	Average area of 15 years.	Assessed at Settlement.	Present Revenue.	Average Rates.
		•				Rs.	Rs.
Chahi	•••	•••	3,069	2,857	3,549	13,096	3.69
Talabi	•••		784	512	815	2,537	3.12
Abi	•••	•••	1,209	892	1,438	2,172	1.51
Barani	•••	•••	19,454	18,205	21,223	10,620	•50
•	Total	•••	24,516	22,466	27,025	28,425	1.05

# (2) Average "bûd" cropped area, and principal crops:—

Crop.	Areas.	Percentage.	(a) K	HARIF.	(b) Rabi.			
, Olop.		Tercentage.	Crop.	Percentage.	Crop.		Percentage.	
I(A)	32	14	Maize	7.98	Wheat		1.22	
I (B)	7,810	33.08	Cotton	7.55	Barley		13.97	
	•		Jowar	30.98	Gujai		1.67	
Total I	7,842	33.22	Bajra	14.57	Bejhar		3.92	
			Til	6.05	Gram		8.28	
II	2,905	12.30	Moth	1.85	Others		.73	
III	12,865	54-48	Others	1.23	***		•••	
Total	23,612	100.00	Total	70.21	Total		29-79	

This is a rather poor circle with very scanty and feeble irrigation; hitherto lightly assessed. Its present irrigated area is nearly 12 per cent. below that of last Settlement, and its present proportion, even in years such as the five selected, of its total cultivated area under irrigation is now less than 16 per cent. The present cultivated area of the selected years is also 10 per cent. below that of the last assessment. The usual dofasli area is now 24.5 per cent. of the average irrigated sown area: but the circle's percentage of rabi crops grown is below the district average, and its proportion of first class crops grown is the lowest of all the circles, while practically no Class I (A) or kachhiana crops are grown. Barley and gram with a little bejhar comprise the rabi crops; jowar and bajra occupy two-thirds of the average kharif area. Owing to the falling off of percolation along the big nalas through mauza Gangwana northwards, the wells in a number of the villages have been long useless, and these villages have greatly suffered and deteriorated in the recent series of dry and uncertain years. Good tanks and water courses are not plentiful in the circle, and no great improvement, or permanent protection, seems possible unless the once projected tank in mauza Untra can be constructed. To its construction, however, there are objections on behalf of the Sambhar Salt Lakes. big new tank made in mauza Kair since last Settlement has unfortunately so far benefitted only this one Jaghir village, through its wells, without bringing any water revenue to Government.

154. The net assets of this circle are Rs. 82,582, and the half net

Crop	·s.	50% net Assets.	Incidences.
I		29,498	3.76
II	•••	3,790	1:31
III		8,003	-62
Total		41,291	1.75

assets with their detail and crop class incidences are as given on the margin. The incidence of these half net assets on the average total cultivated area of the five selected years (24,516 acres) is Rs. 1.68, as compared with Rs. 1.05 of the current revenue, and with Rs. 1.27 which would be the incidence of the revenue (Rs. 30,388) on the present cultivated areas (24,516)

acres) given by last Settlement rates raised by 20 per cent. (vide Appendix XVII).

Forty per cent. of the net assets here is Rs. 33,033 and there is no question of going above 40 per cent. for this poor and precarious circle. Rs. 30,388 above represents only 37 per cent. of the net assets, *i.e.*, roughly 75 per cent. of the half net assets, or the latter reduced by one-fourth.

Taking 40 per cent. of the net assets, that is, four-fifths only of the half net assets and reducing their incidences in the same proportion, we get the following figures:—

CROP CLASS.		•••		Net Asser			Areas.	Revenue.
			Decimals.	Rupe	es, anı d pies.	าลร		
I	Rs. Rs. A. P. 3·01 3 0 0		Rs. 7,842	23,526				
11	•••		1.05	1	1	0	2,905	2,905
111	•••	•••	•52	0	8	3	12,865	6,633
Total	•••	•••	1.40	1	6	5	23,612	33,064

which give the following soil rates:-

	Soi	Τ.		Arca	RAT	es in—		р	Last Settle- ment rates	
	~0.			in acres.	Decimals.	Rupees, annas and pies.		Revenue.	+ 20 per cent.	
					Rs	Rs.	A. P.	Rs.		
Chahi	•••	•••	•••	3,069	4.75	4	12 0	14,578	4.43	
Talabi	•••	•••	•	784	4.06	4	1 0	3,185	3.75	
Abi	***	•••		1,209	2.20	2	3 0	2,645	1.81	
Barani			•••	19,454	63	0	10 3	12,643	.60	
		Total	•••	24,516	1:34			33,051	1.26	

The soil rate of *barani* here is relatively high for the reason that much of it contains Class I crops grown on *barani* lands for want of sufficient irrigation. This area does not appear in the third-crop class area which contains only the *barani* soil growing the third-class crops.

which contains only the harani soil growing the third-class crops.

Taking only 75 per cent. of the half net assets, we get rates of Rs. 2-13-0, 1-0-0 and 0-7-6 respectively which give a revenue of Rs. 31,067 and the following soil rates:—

						Soil i	RATE IN-				
CROP CLASS.		Crop R	late.	Revenue.	Soil.	Decimals.	Rupees, annas		ยอ	Revenue.	
<del></del>		Rs.	A. A.	Rs.	Rs.	Rs.	Rs.	A.	P.	Rs.	
I		2	13 0	22,115	Chahi	4.43	4	7	0	13,619	
II		1	0 0	2,905	Talabi	3.90	3	14	6	3,063	
ш		0	7 6	6,047	Abi	1.88	1	14	0	2,267	
					Barani	•62	0	10	0	12,159	
Total		1:31		31,067	Total	1.27				31,108	

As these soil rates here indicated seem to me sufficiently high for this circle, representing as they do a full 20 per cent. rise upon the soil rates of last Settlement, I propose as a present all-round standard to take as the average crop-rates for this poor circle, Rs. 2-13-0, 1-0-0 and 0-7-6.

For red pepper, garden produce including roses, and for sugarcane when grown, I propose to take double the first-class rate here, but for melons, tobacco and lucerne grass, only the ordinary first-class crop-rate.

155. The Pushkar Circle.—The principal figures of this circle are :-

s	oil.		Average area of 5 years.	Average area of 15 years.	Assessed area at Settlement.	Present Revenue.	Average Rate.
Chahi Talabi Abi Barani	•••		945 78 770 8,844	915 61 802 3,480	681 96 977 3,565	2,950 296 2,286 1,369	4·34 3·08 2·34 ·38
	Total	<b>}</b>	5,637	5,258	5,319	6,901	1.29

1	2	Average	bud e	beagor	areas and	principal	crops	:
- 3	-			201300	Car office Park			•

		(a)	RIF.	(b) Rabi.			
Areas.	Percentage.	Crop.		Percentage.	Crop.		Percentage.
118	2·18	Maize	•••	4.30	Wheat	,	2.07
1,901	35.05	Cotton	٠	3.84	Barley	•••	20.67
	<del></del>	Jowar		2.53	Gnjai		2.89
2,019	37.23	Bajra	•••	30.39	Bejhar		2.41
		Moth	•••	23.06	Gram	•••	2.82
312	5.75	Til	•••	-76	Sugar-cane	·	1.90
3,093	57.02	Others	•••	1.58	Others		·78
5,424	100.00	Total		66.46	Total	•••	33.54
	118 1,901 2,019 312 3,093	118 2·18 1,901 35·05 2,019 37·23 312 5·75 3,093 57·02	Crop.  118 2·18 Maize 1,901 35·05 Cotton Jowar 2,019 37·23 Bajra Moth 312 5·75 Til 3,093 57·02 Others	Crop.  118 2·18 Maize  1,901 35·05 Cotton  Jowar  2,019 37·23 Bajra  Moth  312 5·75 Til  3,093 57·02 Others	Crop. Percentage.  118 2·18 Maize 4·30  1,901 35·05 Cotton 3·84  Jowar 2·53  2,019 37·23 Bajra 30·39  Moth 23·06  312 5·75 Til ·76  3,093 57·02 Others 1·58	Crop.         Percentage.         Crop.           118         2·18         Maize          4·30         Wheat           1,901         35·05         Cotton          3·84         Barley           Jowar          2·53         Gujai           2,019         37·23         Bajra          30·39         Bejhar           Moth          23·06         Gram           312         5·75         Til          ·76         Sugar-cane           3,093         57·02         Others          1·58         Others	Crop.         Percentage.         Crop.           118         2·18         Maize          4·30         Wheat            1,901         35·05         Cotton          3·84         Barley            Jowar          2·53         Gujai            2,019         37·23         Bajra          30·39         Bejhar            Moth          23·06         Gram            312         5·75         Til          ·76         Sugar-cane            3,093         57·02         Others          1·58         Others

This is a very small eircle of only nine villages, none of them of any great size, shut in a narrow valley of their own and as a circle dissimilar from the rest of the district. The sloping barani soils lining the sides of the valley are practically all sheer sand—the kharif crops are thus nearly all the lower erops, bajra and moth, which, however, grow here well enough in favourable seasons. These lieaps of sand, however, act as reservoirs for moisture for the central plain (down which, moreover, runs the Sarsuti Nadi), and this central plain is largely a sketch of good alluvial soil in which the sub-soil usually contains water at an easy depth, or in the surface soil of which there is more often than not enough moisture to grow erops without artificial irrigation. This circle suffers much less in a dry period than the rest of the district; it does best in a year of light rainfall; its central alluvial soils are liable to get quickly water-logged and swampy in years of heavy rainfall; and at all times there is a good deal of saline effervescence on the soil surface from over-saturation, which reduces the crop yield and counterbalances the effect of the usually easy water supply.

The eirele is thus unique in showing an increase in the cultivated area over the settlement area of 6 per eent., and in the chahi area of over 38 per cent. The total irrigated area is thus now over 18 per eent. of the total eultivated as compared with only 14.6 per cent. then. The eirele grows, for the district, a good deal of sugar-eane, and the cane grows ordinarily thickly and without much trouble in its alluvial hollows—while its barley also grows largely in the alluvial soils along the Sarsuti without

irrigation.

On the whole, therefore, conditions are somewhat easier here for agriculture: and the percentage of rabi crops grown is well above the district average. Nevertheless, the total percentage of the first-class crops is still well below the district average, and the circle grows less of maize and cotton and of the finer kharif crops generally in proportion than any other; the percentage of dofasli (viz., 21 per cent. only) also is the lowest of all circles, while the increased figures of irrigation do not really mean very much. What has happened is that in the recent cycle of dryer years and sinkage of the water level, water has had to be hauled up from the lower levels by wells, more or less temporary, to irrigate alluvial soil that would formerly not have required this irrigation, as containing sufficient moisture in itself. This explains the decrease of the abi soils in the area figures: and these changes can only be regarded as seasonal variations, not as evidences of permanently established improvement.

Thus any increase of revenue here must after all be based only on the general increase in the cultivated area, taken in connection, of course,

with the rise in values.

The net assets of the circle are Rs. 20,721 and the half net 156.

				assets an
•	Crops.	50 per cent. net assets	Incidence.	as shown of these total cul
	I II	Rs. 7,875 439 2,016	Rs. 3·90 1·41 ·66	years (5,0 Rs. 1.29 and with
•	Total	10,360	1.91	incidence the prese

and their erop-class incidences are n on the margin. The incidence half net assest on the average ltivated area of the five selected 637) is Rs. 1.84, as compared with 9 of the last assessed revenue h Rs 1.67 which would be the e of the revenue (Rs. 9,144) on ent cultivated areas (5637 acres) given by the last Settlement rates raised by 20 per cent. (vide Appendix XVII).

Forty per cent. of the net assets is Rs. 8,288, which would give crop rates of Rs. 3-2-0, 1-2-6 and 0-8-3 per acre. Rs. 9,144 are 44 per cent. of the assets, but this would give rather too heavy an enhancement of the revenue. On the whole, I propose to take the rates of Rs. 3-4-6, Rs. 1-4-0 and Rs. 0-7-6, representing 41 per cent. of the assets. rates give the following figures and soil rates:-

								Soil 1	RATE IN:				
Crop Cla	88.			Soil.		Decimals.	Rupees,	ann 108.	ns	Revenue.			
I		Rs.	a. 4		6,625	Chahi		Rs. 5:00	5	0	0	4,725	
11		ı	4	0	390	Talabi	•••	3.56	3	9	0	278	
III		0	7	6	1,450	Abi		2.50	2	8	0	1,925	
						Barani		-11	0	6	6	1,562	
Total	•••		1.	56	8,465	Total	•••	1.50				8,490	

Last Settlement soil rates plus 20 per cent. are Rs. 5.21, 3.70,

2.81, and '46 respectively.

These rates of Rs. 3-4-6, 1-4-0 and 0-7-6 will be quite high enough as an average standard. They will give (vide Appendix XVII.) on present areas an enhancement of nearly 23 per cent. on the current revenue.

For sugar-cane, melons, red pepper and garden produce, including roses, I propose to take in this circle double the first-class crop rates: but for lucerne grass and tobacco only the ordinary first-class crop rates.

157. The Rajgarh Circle.—The principal figures of the circle are :—

Soil.		Average area of 5 years.	Average area of 15 years.	Assessed area at Settlement.	Present Revenue.	Average Rates.
Chahi		4,077	3,974	4,258	Rs. 965	3.75
Talabi		1,208	978	1,839	147	3.88
Abi	•••	1,428	1,229	1,903	2,792	1.47
Barani		15,515	15,245	17,827	8,205	•46
Potal	•••	22,228	21,426	25,827	34,109	1:32

(2). Average "bûd" cropped areas and the pr	uncipal crops:—
---	-----------------

			tago.	(a) Kn	ARI:	F.	(b) I	Rabi.	
Crop Cla	.P2	Areas.	Percentago.	Crop.		Percen- tage.	Crop.		Percentage.
I (A)		47	•21	Maize	•••	13:08	Wheat	•••	2.48
I (B)		9,704	44.43	Cotton	•••	11.02	Barley		14.21.
				Jowar	•••	18-16	Gajai		2.78
ı	•••	9,751	44.64	Bajra		12.12	Bejhar	•••	2.68
				Moth	•••	3. (3)	Gram'		6.46
п		2,208	10-11	Til	•••	9.84	Others		1.53
II1		9,885	45.25	Others		2.51			
Total		21,844	100-00	Total	•••	69.86	Total		30.14

This is an average-sized circle of twenty-six villages, a few of which, e.g., Bhaonta along the Sagarmati, are of very good quality; but there are many that are poor only. 23.8 per cent. of its cultivated area is, on present figures, irrigable, in which respect it is much better off than the Gangwana Circle and about on the same level as the Ajmer Circle. But its villages have not the same natural moisture as those of the Pushkar Circle, while the percolation influence of the Anasagar tank does not now, since the building of the Foysagar tank above the latter, reach down so far into the villages of this circle ordinarily as it used to, and the proportion of the total cultivated area now irrigated is, even on the average of the five selected years, fourteen per cent. below the standard of last Settlement, when 27.5 per cent. of the cultivated area was irrigated. The present cultivated area is similarly still fourteen per cent. below that assessed at last Settlement.

The circle as a whole grows no sugar-cane ordinarily and very little of class I (A) crops; but, on the other hand, its percentage of the ordinary 1st-class crops grown is above the district average, its percentage of rabi crop is up to the average and of the poorer third-class crop is less than the average. Its dofasli percentage, twenty-four per cent, is average.

On the whole, it is a fair average circle pulled down by a number of poorer villages with poor sandy soil or scanty and feeble irrigation. There is a good deal of good rich soil in the circle, but there are also large, sandy and stony stretches of poor quality.

158. The net assets of the circle are Rs. 89,705, and the detailed

Сгор	Class.		50 per net ass			Incidence.			
III	  Total	•••	Rs. 36,496 3,254 5,403	A. 0 0 0	P. 0 0 0 0	Rs. 3·71 1·47 ·55			

crop-class half net assets with their incidences are as given on the margin. The incidence of these half net assets on the average total cultivated area of the five selected years (22,228 acres) is Rs. 2.02, as compared with Rs. 1.32 of the last assessed revenue and with Rs. 1.58 which would be the incidence of

the revenue (Rs. 35,021) on the present cultivated areas (22,228 acres) given by the last Settlement rates raised by twenty per cent. (vide-Appendix XVII).

Rs. 35,021 is roughly equal to forty per cent. of the net assets (Rs. 35,882), which standard I propose to take here. Thus:—

۲.,	op Class		Half net Assets	PROPOSED F	Proposed Rates in-						
OI.	op Class	•	Rates.	Decimals.	Rs.	Λ.	A. P. Rever				
			Rs.	Rs.				Rs.	۸.	Р.	
I			3.71 \ 20 1	= 2.97	2	15	6	289,49	0	0	
II	•••		Reduced by 20 per cen	=1.18	1	2	9	2,588	0	0	
Ш	•••		55) Bed 65.	<b>=</b> ·44	0	7	0	4,325	0	0.	
~					<u> </u>	<u>'</u>					
	Total	•••	2.05	1.64	-			35,862	0	0	

and these crop rates give the following soil rates:-

Soil.	 Areas	Soil Rate in-				Payanua			Last Settlement	
5011.	 in acres.	Decimals.	Rs.	А.	P.	Revenue.			per cent.	
Chahi Talabi Abi Barani	 4,077 1,208 1,428 15,515	Rs. 4·63 4·75 1·78 ·56	4 4 1 0	10 12 12 9	0 0 6 0	Rs. 18,856 5,738 2,514 8,727	A. 0 0 0 0	P. 0 0 0	Rs. 4·50 4·66 1·76 •55	
Total	 22,228	1.61				35,865	0	0	1.59	

That is, the rates for this circle will average round Rs. 3, 1-2-9 and 0-7-0; will sink to Rs. 2-4-0 or even 2-0-0, and 0-5-0 for the bad villages and rise up to Rs. 3-12-0 and 0-8-0 or 0-9-0 for the good. I propose to take double of these first-class rates here for red pepper and for garden produce, including roses, and for sugar-cane when grown, also for melons in one or two villages; but for melons in other villages, and for tobacco and lucerne grass in all villages, only the ordinary first-class crop rate.

159. The Ramsar Circle—The principal figures of this circle are:—

SOIL				Average area of 5 years.	Average area of 15 years.	Area assessed at Settle- ment.	Present Revenue.	Average Rates.
Chahi Talabi Abi Barani	•••	•••	 	Acres. 4,407 5,917 2,089 25,237	Acres. 3,645 4,304 1,538 20,076	Acres. 4,603 6,237 2,014 - 27,171	Rs. 18,540 24,203 3,085 16,387	Rs. 4·03 3·88 1·53' ·61
		Total		37,650	29,563	40,025	62,215	1.55

(2)	Average	$b\hat{u}d$	cropped	areas	and	princip	pal erop	s:
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				(a) K	CHARH	P.	(b)	Rabi.	
Crop Cla	155.	Area.	Per- centage.	Crop.		Per- centage.	Crop.		Per- centage,
I (A)		49	·12	Maize	44.	15.70	Wheat		5.82
T (B)		21,614	51.01	Cotton	•••	15:18	Barley		13.8
				Jowai	•••	21.63	Gujai	•••	1.94
I		21,663	51:13	Bajia	•••	6.06	Bejhar	•••	2:52
				Til	•••	6.88	Gram		6.12
II	•••	3,571	8.93	Others		2 66	Methi		1.02
ш		14,781	36-94				Others		.61
Total		40,018	100.00	Total		68-11	Total		31.89

This is a large circle and is pre-eminently the circle of large and good tanks. The percentage of the cultivated area irrigated is the same now as at last Settlement, roughly, 27.5 per cent: this is the highest percentage in the district. Cultivation has dropped, but only by six per cent. and probably less, as the Khasras here are defective, and 37,650 acres are probably under the real figures. The circle grows only a very small amount of Class I (A) crops, but, on the other hand, the general superiority of its soils is shown by the unique fact that its crops are much more largely those of the ordinary first class crops than of the poorer third-class crops, the percentage of the former being as high as 54 per cent., while its percentage of rabi crops is also above the district average. It grows the largest percentage of maize and cotton, especially of the latter, a lucrative crop, and its wheat area is also high, almost double the average. Of the 3rd-class crops, jowar and til are the chief. In point of crops, it is in general the best of all the five circles. Its dofasti percentage is roughly 24 per cent.

But, comprising 57 villages, the circle naturally varies in quality. There are no specially good villages standing out from the rest, and the bulk of the villages are of a fairly consistent average, with some fair loam soil. But many of them have large stretches of shallow stony soil, and most of them have suffered severely in the recent cycle of dry years. And there are also many villages with a thin sandy soil, which runs in places to absolute sheer sand, of poor productive power; while over large areas the well-water is brackish.

For these poor soils and wells easy rates will be required, and this must lower the general average and seem to pitch it below what the comparatively good erop and irrigation statistics might otherwise appear to warrant.

160. Over the circle as a whole we certainly cannot exceed forty

(	Crop Clas	s.·	† net Assets.	Incidences.
I II III	•••		Rs. 79,435 6,695 9,473	Rs. 3·67 1·88 ·64
	Total		95,603	2.39

per cent. of the net assets. The latter are Rs. 1,91,207, and the half net assets with their detail and incidences are as shown on the margin. The incidence of these half net assets on the average total cultivated area of the five

selected years (37,650 acres is Rs. 2.54, as compared with Rs. 1.55) of the current revenue and with Rs. 1.86, which would be the incidence of the revenue (Rs. 71,126) on the present cultivated areas given by the last Settlement rates raised by twenty per cent. (vide Appendix XVII).

Forty per cent of the net assets is Rs. 76,482, which give rates of Rs. 2.94, 1.51 and .51, or, adapted to convenient multiples of bighas, Rs. 2.15-6, 1-6-6 and 0-7-6, a revenue of Rs. 76,267, a total circle incidence on the average cropped area of Rs. 1.95 and on the cultivated Rs. 2.03, or over Rs. 2.0-0 and an increase of revenue of nearly twenty-three per cent. These figures are still somewhat high, and on behalf of the poorer villages the first-class crop rates should perhaps be slightly lowered further to Rs. 2-13-0, which reduction would give a revenue of Rs. 72,881, a cropped incidence of 1.82, a cultivated incidence of 1.93, and an increase of seventeen per cent. However, I let the higher rate stand for the present, but in the poorer villages and soils the rates applied will be freely marked down from this level.

							So			N-			Last- Settle
Crop C	lass.	Rates	prop	osed.	Revenue.	Soil.		Decimals.				Revenuc.	ment rate+ 20 %
		Rs.	А.	P.	Rs.			Rs.				Rs.	Rs.
I	•••	2	15	G	64,313	Chahi	•••	5.31	5	5	0	23,412	4.83
II	•••	1	6	6	5,026	Talabi	•••	5.00	5	0	0	29,585	4.66
III	•••	0	7	G	6,928	Abi	•••	2.06	2	1	0	4,307	1.84
						Barani	•••	•75	0	12	0	18,927	∙73
Total		. 1.	95		76,267	Total	•	2.03				76,231	1.86

The soil rates thus indicated by these proposed crop rates are high above those of last Settlement enhanced by twenty per cent. but in reality they would not be so high, as the cultivated areas aggregating 37,650 are probably under somewhat owing to some defective Khasras, while the actual crop rates will, as indicated, probably work out lower than the above standard.

In this circle for red pepper, garden produce, including roses, and sugar-cane when grown, I propose to charge double the first-class rates, but for melons, lucerne grass and tobacco, the ordinary first-class crop rate only.

161. The above rates and revenues are shown together in Appendix XVII., but I bring the proposed rates together here for ready reference and comparison:—

#### STATEMENT XVIII.

Circle.	Crop Class.	Half net Assets In- eidenee.	Average eirele erop rates proposed.	Result- ant Revenue	Per- centage of Assets.	Corres- ponding Soil Rates.	Last Settle- ment Soil Rates.	Last Settle- ment soil rates -20%.
1	2	3	4	5	6	7	8	9
		Rs.	Rs.	Ra.		Rs.	Rs.	Rs.
Ajmer {	III II I	4 19 1.61 .71	3°50 1°31 °56	27,633 1,666 6,518	•••	5·50 4·75 1·56 ·53	4·56 3·97 1·31 ·44	5·17 4·77 1·57 ·53
Total		2.09	1.73	35,817	41.28	1.68	1.46	1.75
Gangwana	III II	3·76 1·31 ·62	2·82 1·00 ·47	22,115 2,905 6,047		4·44 3·91 1·83 ·63	3.69 3.12 1.51 .50	4·43 3·74 1·81 •60
Total		1.75	1.33	31,067	37.62	1.27	1.05	1.26
Pushkar {	III II	3·90 1·41 ·66	3·28 1·25 •47	6,625 390 1,450		5·00 3 56 2·50 •11	4·34 3·08 2·34 ·38	5·21 3·70 2·81 ·46
Total		1.91	1.56	8,465	40.85	1.50	1.59	1.56
Rajgarh	III	3·71 1·47 ·55	2·97 1·17 ·44	28,949 2,588 4,325 		4 63 4 75 1 78 56	3.75 3.88 1.47 46	4·50 4·66 1·76 ·55
Total		2 05	1.64	35,862	39.98	1.61	1.32	1.59
Ramsar	III II II	3·67 1·88 ·64	2·97 1·41 ·47	64.313 5,026 6,928		5·31 5·00 2·06 ·75	4·03 3·88 1·53 ·61	4·83 4·66 1·84 •73
Total		2.39	1.95	76,267	39.88	2.03	1.55	1-88
Total District	( III II	3·78 1·58 ·64	1.22	12,575	•••	5·00 4·81 1·92 ·62	4·06 3·81 1·58 -51	4·87 4·57 1·90 ·61
Total		2.11	1.68	1,87,478	39.81	1.68	1.36	1-63

In addition to the above it is proposed to charge double the ordinary first-class crop-rates for sugar-cane, garden-produce including loses, and red pepper, in all circles, for melous in circle Ajmer and Pushkar, and for tobacco and lucerne grass in circle Ajmer.

These doubled lates will add about Rs. 1,000 to the above estimated revenue, bringing it up to Rs. 188,478, that is, the level of the full 40 per cent. of net assets. There will be also some slight income from assessable Siwai items, e.g., Aira grass in the Pushkar Circle, raising the total up to roughly Rs. 1,90,000 for the Ajmer District. On the other hand, there will be some deductions for new wells, etc., and "lift" irrigation, which I cannot estimate at present, but which we may put for the present at Rs. 10,000, leaving a net sum of Rs. 1,80,000 accruing on present areas



### Statement XIX.

Period.	Chahi.	Talabi.	Abi.	Barani.	Total.
Mr. LaTouche's assessed areas	18,553	8,365	7,746	74,256	1,08,920
Mr. Whiteway's assessed areas	18,237	9,263	7,630 3,366	85,956	1,24,452
Actual Milan Khasra of 1885-1886	21,822	8,328	7,303	78,987	1,16,440
Average last 15 years (1300 to 1314 Fasli)	15,560	6,018	5,597	69,994	97,169
Average of five selected years	17,084	8,218	6,710	79,314	1,11,326

Mr. Whiteway, according to his own figures (para. 87 of his report) raised the total demand from Rs. 1,52,039, as he apparently found it, to Rs. 1,65,625 (exclusive of some further revenue on 3,366 acres of variable abiland), though from the statement in paragraph 277 of Mr. LaTouche's final report it would appear that the latter had assessed a total of Rs. 1.42,896 only as revenue, exclusive of cesses.

But, whether the actual amount added by Mr. Whiteway's revision was Rs 14,000, or Rs. 24,000 the fact remains that his resultant demand has, I think, owing to the persistently lower levels at which the actual cultivated areas have remained, already discounted, for the purpose of a fixed average demand over a period, the subsequent rise in values up to the present time, and from this point of view still represents practically a maximum average not yet enhanceable.

Assessment of the Jagir Villages, and Muafi lands, for Cesses.

163. There are two questions connected with the nominal assessments on the Jagir villages, for the purpose of determining the amount on which to take the Rs. 3-2-0 per cent. district cess, on which I solicit orders.

These questions relate to (1) the standard, and (2) the system, of these assessments.

As regards the former the existing nominal assessments, which now stand in the aggregate at Rs. 65,911, carrying total cesses of Rs 2,060, are really still Mr. LaTouche's, having been raised to their present figure in 1889, merely by the assessment of new barani lands at the old rates. Mr. LaTouche—vide paragraph 281 of his report—applying the revenue assessing rates of the Khalsa villages, but, as he says "leaning to the side of severity, whenever in doubt," arrived at an actual aggregate Jama of Rs. 62,642, a sum which, he said, was "as near as possible one-fourth of the estimated value of the gross produce."

The question is, presuming that the nominal Jamas again to be worked out for these villages are to be "fixed" for a term of years, am I now to maintain this standard of one-fourth of the gross divisible produce, or am I, as in the Khalsa villages, to take one-sixth only of the gross divisible produce as ordinarily the maximum standard for the Jama?

The second question is, am I to work out for each Jagir village a "fixed" Jama, as before, on the ordinary lines of a fixed assessment, or shall the fluctuating system be extended to these villages also, a nominal half-yearly Jama in each case being worked out at every harvest as in a Khalsa village and the amount of its cess thus determined?

164. If the assessments are to be "fixed" as before, then completely new assessments worked out on the basis of a rigid one-sixth stan-

dard-ride Appendix XVIII, showing the average gross Produce and Net Assets in these Jaghir villages for the last twelve years, 1895-1896 to 1906-1907—will give no increase in their nominal jamas and amount of cesses. A full one-sixth of the average gross divisible produce there indicated is Rs. 61,922, only: or, even if we take into account the value of bhusa and straw, at ten per cent, on the grain value of the crops concerned, it is Rs. 65,761, as compared with the Rs. 65,911 now current.

On the other hand, an assessment at one-fourth of the value of the average gross divisible produce would give an aggregate nominal jama of Rs. 92.883, with a large enhancement of nearly Rs. 27,000 or of forty-

The matter is merely one of cesses, which are all comprised here in the comparatively easy figure of Rs 3-2 per cent. only of the jama. This figure is low as compared with the cesses that prevail elsewhere; and these Jagirdars contribute nothing more than this for the protection and other advantages which they enjoy equally with the surrounding revenuepaying villages And they have generally not assisted, with the readiness of the Khalsa villages, to expedite the current survey and record-writing operations; of which moreover in these villages the Government has to bear the whole east with no possibility of reconning itself from any enhanced land revenue. There is thus no call for any leniency in fixing their nominal jamas.

If, however, the harvest-to-harvest fluctuating system proposed for Khalsa area were to be extended to these villages, the same Khalsa standard, of one-sixth only of the produce, and the Khalsa rates should, I think, be applied; and the nominal basis for the application of Rs. 3-2 per eent. could be worked out at each harvest without much further trouble to But I do not recommend fluctuating assessments the Assessing Officer. twice a year for these Jaghir villages. The amount at stake is not large,

and the more that they are left alone, I think, the better.

I propose therefore subject to orders to the contrary, to make a fixed assessment for a period for these nominal jamas for calculating these cesses and to make these cess amounts "fixed" also.

the first question of the "standard," however, still open.
As regards this, I would, on the whole, suggest, that for a fixed assessment also the Khalsa one-sixth standard only should be generally applied, but that in this case I should, while employing the rates of the surrounding Khalsa villages of similar quality suitably enhance these rates in any ease where the unenhanced rates would produce a jama less than that now current; that is, where an increase on the current jama of any of these villages is possible, the new assessment will be made on the same standard of one-sixth as in the khalsa area; but where on this standard no increase is possible, and where there has been no marked physical deterioration in the village, and its current Jama does not exceed Mr. LaTouche's standard of one-fourth, this current jama will not be reduced.

There is a good deal of Muafi lands (seattered in 101 villages, both Khalsa and Jaghir), paying the same cess, to an aggregate yearly total I think that these also may each be given a fixed nominal assessment and a fixed amount of cess, as heretofore—this amount being

determined in the same way as suggested for the Jaghir cesses.

# SUPERVISION AND STAFF.

Simple as I have tried to make the assessment system proposed, and simple as it really is, in the eircumstances of a through-going fluctuating system, I have no confidence that it will work successfully and without abuses, unless the existing arrangements of Ajmer-Merwara in the matter of supervision are either materially changed, or strengthened and improved.

Mr. Whiteway imposed a fluctuating system on 61 villages: it is now prososed to impose a fluctuating system on 469 villages, on the

whole Khalsa area of both districts.

Mr. Whiteway drew attention to the great and pressing need of supervision. He anticipated (paragraph 69 of his report) even in regard to his own restricted scheme "that its annual administration will involve considerable difficulties." As he further remarked, however, the chief or "sole difficulty is one of supervision and administration."

This mater is so much nore important now than then, that I quote also the following from his same paragraph, in order to emphasize the

matter.

"To put it plainly, the junior executive officers on whom all supervision of details will devolve, are sent here to learn their work first and to do it afterwards; and if the rapid change of assistants, which has oeeurred here for some years, goes on, all hopes of any continuous supervision of petty details, on which alone success depends, must vanish. Even with the staff of Supervisors appointed it is inevitable that without this supervision the assessment of the variable revenue will fall more and more into the hands of the Patwarrs, who would soon see the advantages to be gained, and both the Government and the zamindars would suffer. Should the new appointment I have recommended be sanctioned, and it be an appointment worth the while of a good man to keep, some of the difficulties would undoubtedly disappear. Even at its best, to successfully work it, the scheme requires the careful and intelligent supervision of the executive staff, a supervision which must be exercised over petty and often wearisome details. The foundation of the whole is the patwari's annual record of eultivation, and if this be incorrect the whole super-structure built on it will be worthless."

The new appointment recommended was made; an Extra Assistant Commissioner for revenue work being appointed. This remedy, however, has been at best a partial one only. The appointment has hitherto been a backwater only, with no incentive of future prospects to maintain any enthusiasm for the work in the incumbent, and it has tended to aggravate still further the evil of the divorce of the head of the district, the Collector, from real active share in the revenue administration.

- 166. Connected with the revenue administration of Ajmer-Merwara there are:—
  - (1) A Collector in each District,
  - (2) The Revenue Extra Assistant Commissioner,
  - (3) The Tahsildars and their Naibs,
  - (4) The Girdawars,
  - (5) The Patwaris,

First, as regards the Collector—there is a rule, No. 17 of the eurrent rules for the variably assessed villages, which reads:—

"(17) The assessments shall be made under the superintendence and order of the Collector."—

and throughout, of course, the Collector's ultimate responsibility remained. And there are, it is true, notable eases when one or two Collectors (e.g., the present Commissioner of Ajmer Merwara, when Assistant Commissioner) have taken an active part either in the check of the assessments or in the supervision of the revenue work generally. In general, however, these efforts have been at most fitful and spasmodic, and have had no permanent effect in retarding the tendency to leave everything to the Revenue Extra Assistant Commissioner as the sole assessing and supervising Officer—a tendency practically inevitable under the local conditions which have obtained.

Thus—vide the Annual Administration Reports of the districts for the twenty years since 1886-1887—the office of the Collector of district Ajmer has changed hands twenty-eight times in nineteen years (no returns are given for 1900-1901), the office of the Collector of Merwara has changed hands forty-two times in eighteen years (no returns given for 1900-1902), while even the Commissionership changed hands twenty-

six times in twenty years.

Even allowing for Officers returning at subsequent periods to charges which they had already previously held, there have been at least twenty different officers as Collector of Ajmer in the last twenty years, twenty-four different Officers as Collector of Merwara, and seventeen different Commissioners.

That is, the average incumbency in the office of Collector has been —ever since Mr. Whiteway at last Settlement pointed to the "rapid change of Assistants," even then noticeable—in Ajmer eight months, and

in Merwara five months only.

This means that a new Collector taking over charge can in most cases barely have had time to make himself acquainted with the pending questions of his office and to keep the routine work there going before he has had to make over charge again to a successor. In most cases he can have found no time to look round and personally acquaint himself with the actual workings of the revenue system, and with the character of the work of his subordinato revenue officials, from the Revenue Extra Assistant Commissioner downwards.

Even if we look at the question from the number of actual different officers who have held these posts of Collector in Ajmer and Merwara, viz., twenty in the former and twenty-four in the latter district, yet even the average duration per individual officer in Ajmer is twelve months only which was, however, split up into broken periods, and louded with all the disadvantages of temporary and officiating arrange-

ments and their effects upon the work:

Moreover, the position is aggravated by the facts: (1) that most of the officers who have been Assistant Commissioners of Ajmer-Merwara have been officers whose previous service had been spent, practically all, if not exclusively, in Military Service and in Political Appointments, and (2) that the remaining officers, Civilians of my own service, come from all Provinces of India. The former officers probably become Revenue Officers for the first time when they come to Ajmer-Merwara. The latter, the Civilians, even though experienced in revenue work of their own Province, have had still to learn the local problems.

The inevitable consequence has been that the "superintendence" of the Collector of the rule 17 quoted above has been almost throughout purely nominal. Instead of being the Collector's personal Assistant only tor revenue work, the Revenue Extra Assistant Commissioner has

displaced him, as a general rule.

167. Next, as regards the Revenue Extra Assistant Commissioner this post, as at present constituted, is, as already remarked, a backwater only, the end of all things to the incumbent. The other Extra Assistant Commissioners of Ajmer-Merwara can look for various steps of promotion in ordinary course and may be even recommended for appointments with even more prestige and emoluments in Native States. In the case of the late incumbent of this office circumstances, both at his appointment and throughout, were against the question being even raised of the possibility of his transfer to any other post. I by no means wish to imply that the late incumbent of this office in any way neglected his duties: on the contrary, I think, that he did his best in difficult circumstances to make the variable system a success. But I consider that (1) the absence of all incentive due to the shutting out of all hopes of further promotion, (2) the relaxation from above by the Collector of supervision over, and interest in, the work, (3) the gradual unconscious devolution of all duties connected with the whole revenue work in the whole two districts to the one Revenue Extra Assistant Commissioner, (4) the large, and, it must be said, physically unmanageable, size of the tract, some 110 miles in length and most of it difficult ground, and (5) the taking up of the time of the Girdawars and Putwaris here in the work of the

collection of the land revenue, have undoubtedly affected adversely the character of the supervision exercised over the Girdawars and generally of the whole revenue work in Ajmer-Merwara. The charge has, in fact, been too large for one man to carry out its duties really efficiently.

Thus Merwara has hitherto been able to receive very little attention from the Revenue Extra Assistant Commissioner in the past in the way of actual inspections. His visits have been very few and far between and, when they did take place, seem to have been of the nature of hurried dashes there and back. Some of the consequences of this neglect of Merwara, owing to the greater calls of the Ajmer district with its variable assessments and the work of the head-quarter's office, are that the Beawar and Todgarh tahsils have all this time been keeping up different forms of the Jinswara statement, and that the Mutation work generally is largely in arrears—while in both districts alike, the important work of keeping up to date the village maps, even in accordance with the orders that existed, has most certainly not received steady attention.

168. The Tahsildars and Naib Tahsildars are concerned mainly with the collection of the revenue, with case work as Munsifs, and with executive matters: in their duties connected with the cheek of the revenue records they would naturally take their cue from the attitude of the Revenue Extra Assistant Commissioner or the Collector. The mutation work of their circles depends on whether the patwaris report all changes in the proprietary bodies of their villages, though they should be made to see

that the patwaris strictly observe the rules.

The Girdawars' work in the past has evidently been generally perfunctory and slack. But they, with the patwaris, are handicapped in performing their more legitimate duties by being used as the chief agents for getting in the Land Revenue. And there is too much a tendency to regard the Girdawar's land and revenue records' work as not the most important part of his duties. Thus, for practically the whole time that the current Settlement operations have been going on in Ajmer-Merwara, the Girdawars have had no connection with the Settlement work and have received no training in the map-making and record work, and may perhaps receive none in the system of assessment, and yet these are the men whom we shall have to leave behind whose primary duty it will be at first hand to see that the new maps are kept promptly and correctly up to date, that the new knewat is thoroughly understood and kept up properly, and that the Khasra, on which the whole system of assessment depends, is correctly and honestly compiled. I mention this, not in any carping spirit—the threat of impending famine and continuance of distress have been responsible for their absence from the Settlement department but, in order to ensure improvement in the future, the duty must not be shirked of setting forth clearly the present position.

The present Girdawars are some of them bad material only. Better pay and prospects should gradually be provided and a better class of men, more energetic and younger, attracted, preferably candidates holding diplomas from some agricultural college. At present, some of these Girdawars get only rupees twenty-five pay with no allowances, mz. little more than the first grade patwaris, and except the "gentleman ranker" as it were, the ordinary Girdawar has no prospects of promotion beyond rupees forty at the end of his service. But the Girdawars generally must be kept more on the move round and round their circles: they must be made to brush up their survey knowledge and to see that the patwaris are correcting their village maps harvest by harvest, and their check of the Khasras must be severe and searching, and must be done

over the fields themselves.

As regards the patwaris, these are in general quite good material: the pay for patwaris here is good—it ranges from rupees twelve up to rupees twenty, while in the United Provinces the maximum pay is rupees twelve only—and attracts an intelligent and perfectly competent type of

man. The very few incompetents should be gradually weeded out; the rest need only competent supervision to keep them up to their work. At present, however, their circles are on the average much too big, especially in Merwara. Thus, in Todgarh there are circles in which the separate cultivated plots, each with a different number in the khasra, aggregate some 15,000 or even more, much of this cultivated area consisting of isolated groups of fields stranded away over hills in places most difficult of access. The patwari, even with the assistance of a naib, cannot possibly, as a physical feat, get round this vast number of fields at each Girdawari, and it is not too much to say that in the past, in many seasons at any rate, the kbasra of such villages has been to a large extent, if not literally "fudged," at any rate not compiled on the spot.

Moreover, a lot of the patwari's time is taken up with the land revenue collections. Apart from explaining the accounts to the individual revenue payers, the patwari is expected to actually collect the money and to pay it, or see it paid, in-although lambardars are appointed for

this work and receive five per cent. of the revenue collected.

Thus, the present position in summary is, briefly that the Collector is not able, owing to want of time or want of experience, himself to direct the supervision required over the revenue work; that the one Revenue Extra Assistant Commissioner cannot effectively supervise all details of the work in both districts, at least he has not done so yet, that the supervision over the girdawars has not been as strict or close as it should be, that the girdawar's check work over the patwaris has tended to be perfunctory only, and that the patwaris, some of them at least, have circles even now much bigger than they can properly manage.

I quote here the following remarks by Mr. E. H. Blakesley, Commis-

sioner of Ajmer-Merwara, from paragraph 65 of the Annual Adiministra-

tion Report for 1900-1901 :-

"I have not yet had time to form a reliable opinion on the work" "of the Land Record and Land Revenue staff in the very important" "matters of inspection and check of patwaris' papers and the assessment" "of variably assessed Land and Water Revenue; but what I have seen," "especially in the matter of suspensions of revenue, leads me to think" "that there is very much room for improvement in all these respects."

But if the basis of the assessment system proposed is the patwaris' khasra work, the pivot for success is equally the check work done by the Girdawars. It is proposed now to put in force a fluctuating system of assessment in all villages of both districts, and this has most dangerous possibilites if supervision is lax. The patwaris will not be human if some of their number, taking advantage of any chance provided by insufficient checks, do not yield to the temptation of attempting to make money for themselves by either entering wrong figures of crop areas and out-turns in the khasra or manipulating those entered. Further, there is the villagers' point of view. One important reason for dislike on the part of the villagers of a harvest-to-harvest assessment is, as already noticed in this report, that they allege that their interests are put thereby too much in the hands of the patwaris and subordinate staff generally. relaxation of supervision and check over the patwaris and over the Girdawars will assuredly lead to the patwari becoming too much the defacto assessing officer, and providing the villagers with a genuine cause of complaint, thus adding to the ordinary difficulties of the revenue administration the serious political factor of grave discontent among the Moreover, the work would be augmented, and perhaps seriously hampered by the investigations into each specific alleged instance of abuse, and again the time and attention of the higher staff be diverted from supervising the rest of the work, to its detriment.

The primary essential need, therefore, is that the Girdawars shall be efficient checking officers over the patwaris. This must be recognised as their most important function, and nothing must be allowed to

interfere with its due performance, at any time but more especially in

bad years and in famines.

Next, these Girdawars must be themselves closely supervised The tendency in the past has been, I think, too much for superior officials to devote their attention to the patwaris' work only, and not to cheek the Girdawar's cheek work. In the draft rules, however, which I have under contemplation, the duties of all concerned in this matter will be made clear

I also intend to submit proposals for re-allocating the patwaris' circles, cutting down their present limits where this seems required, abolishing naib patwaris generally, but providing for those new independent circles, and probably increasing the total number of the circles to some extent. At least two more Girdawars also are really required even to cope with the present work, so that we may allow the registrar Girdawars to confine their whole attention to their office work instead of making them try to do both out-door and in-door work indifferently. Proposals as regards these matters will also be submitted separately. For the present I confine myself to the question of arrangements for supervision over the Girdawars and the work generally by the superior staff.

170. In the first place, for real success, it is the man at the top, the Collector, who, being ultimately responsible for the district from a revenue point of view, must secure and maintain a personal grip on the work. Zeal above means efficiency below; at any rate indifference above will not produce efficiency below. His responsibility ought not to be allowed to drift into the nominal: it should remain real and effective. He should know personally his whole staff, down to the Girdawars at any rate, and should be in a position to intervene actively, with knowledge, at any moment, and see that every one under him is doing his proper work.

This, for Ajmer district as its circumstances are is perhaps a counsel of perfection not really attainable. But if the Assistant Commissioner eannot be freed from some other work in order to find some time to personally supervise his revenue subordinates, or if the exigencies of the political service require that he cannot be usually a revenue-trained officer, or even that he cannot be kept in Ajmer long enough to acquire the necessary revenue knowledge, then it is inevitable that the bulk of the work must be devolved upon some more permanent officer with the requisite local knowledge. There are here two possibilities, one is that he be given, as at present, a Revenue Extra Assistant Commissioner; or, second, that as in other parts of India the subdivisional system be adopted. By the latter I mean in Ajmer that all the Extra Assistant Commissioners (who are here for a life-time) should be connected with the revenue work, each being given a specific portion of the district for the proper control, supervision, and check of the revenue work, for which he would be directly responsible. Each could also, under this seheme, be made responsible for the correctness for each of his villages of the assessing khataunis in the form in which they are submitted to the Collector. This seheme would involve some distribution of other duties, no doubt, among the several Extra Assistant Commissioners, but the result would make, I think, for greater efficiency.

If, however, this suggestion is not feasible, and the Assistant Commissioner must be frequently changed, the only other suggestion I can make is that all junior officers of the Political Department, if likely thereafter to be ever posted to Ajmer-Merwara, should, on entering this department be sent here for six months or a year as joint Assistant Commissioner, first to be trained in the revenue work, the system of records and of the assessment, and in the later stage of their deputation to take actual charge of the work in, say, a portion of the district. But even then, the special Revenue Extra Assistant Commissioner for Ajmer must remain, and his powers and functions be exactly defined, and each succeeding Collector must be impressed with the necessity of making it a matter of personal concern to see, so far as he can, that this Revenue

Extra Assistant Commissioner and his circle inspecting officers the Tahsildars and their unibs, are adequately supervising the Girdawars.

171. The Collector of Merwara, on the other hand, is usually not so overburdened with work that he could not devote a considerable amount of his time to doing the revenue work of his district largely himself. The difficulty here also is, however, that on an average he stays only about five months, and is more often than not a very junior officer absolutely untrained to district work, and, if, as is usually the case, he is a military officer, usually completely unfamiliar with the working of any system of revenue.

If an officer with some revenue training could be always sent to Merwara, or could be kept there long enough to acquire the experience and knowledge necessary for the efficient supervision of his revenue staff, he should be made directly responsible for the revenue assessments and work generally there, being allowed to make his Extra Assistant Commissioner assist him in this. And nothing further would then, I think, be required, beyond of course the unifying agency of the Revenuo Extra Assistant Commissioner at Ajmer and the Commissioner in the matter of the records and the methods of assessment.

I am not aware, however, of any immediate change being contemplated as regards the officering of Merwara in the future: but unless the phenomenon of the past of forty-two junior officers, untrained in the functions of a district collector, passing through Beawar within the space of eighteen years, is not to repeat itself, some officer other than the district officer must be provided (though he be made only the Collector's personal assistant in this matter) to keep the revenue work going on the lines laid down, to do the necessary inspections, to have the necessary expert knowledge to eheek the work of the subordinate staff and to know whether it is up to the mark or not, to deal with the huge bulk of the assessments that will require to be made twice a year, to watch the working of the Improvement Rules, and generally to conduct that supervision over the hundred and one details of the revenue work necessary to ensure that it is proceeding on the proper lines, and that the heavy expenditure, now being incurred by the Government in providing the new maps and the new records and in initiating a new scheme of assessment, is not allowed to vanish into thin air owing to inefficiency.

172. Some such agency is imperative; the point cannot be evaded by the hope (delusive) that the Assistant Commissioner of Merwara under the present conditions that obtain will be able himself to do the work alone and unguided. The interests at stake not only of the villagers but of the Government itself are too important to risk sacrificing, by leaving the revenue administration to the Tahsildars only, and leaving the Collectors, in their learning stages, to their sole guidance. The Tahsildars would no doubt labour strenuously and honestly to ensure successful working of the assessment system, to maintain scrupulous honesty among the patwaris in respect of their khasra work and to protect the villagers' interests, to see that the maps and records generally are kept up, and that the Government also is being safeguarded from avoidable loss. But the position of leaving the Tahsildars alone in practically sole charge of the revenue administration in not to be contemplated.

In order to give the new system and the revenue work generally a fair chance, therefore, the collector of Merwara also must, in circumstances as they are, be given a revenue assistant. Hitherto that assistant has been the one Revenue Extra Assistant Commissioner of Ajmer-Merwara charged with the work of both districts. But hitherto the only real work that one Revenue Extra Assistant Commissioner has had in Merwara, apart from general supervision, which has not been exacting, has been the assessments on the sixty-four variable tanks, and even in respect of these the assessing khataunis have hitherto been submitted to him with all the necessary details worked out by the Tahsildars who have been

responsible for their correctness, it only remaining for the Revenue Extra Assistant Commissioner to apply a little amount of arithmetic to the

figures to work out the rates and the actual demands.

But whereas hitherto that one Revenue Extra Assistant Commissioner has had only thirty-seven variable villages in Ajmer and the variable assessments there of sixty-five tanks, the new fluctuating system now proposed will require the assessment of 140 villages in Ajmer twice a year and of 330 villages in Merwara, scattered over a very elongated stretch of country, much of which in Merwara is very difficult of access.

173. Will this one man now be able to properly assess twice a year all these villages, and also exercise an efficient control and supervision over the whole subordinate revenue staff?

Personally I think the task is physically impossible, and that to attempt to carry on, if the universal fluctuating system of assessment now proposed be sanctioned, with still only one Revenue Extra Assistant Commissioner for both Ajmer and Merwara will be either only to court a break-down altogether or at any rate to seriously imperil the chances of its success. The requisite supervision over the Girdawar staff from the north of the Ajmer District to the southern retreats of Merwara will not be exercised, and abuses will arise, leading to either the villagers being over-assessed, or to the Government being defrauded. It has to be remembered that, in order to convince the staff that the master's eye is upon them, actual out-door inspections must be made, more especially and liberally, at assessment time, that is, at and round reaping time, that is again, in about a fortnight to one month at most. But how far round can one man get over 470 villages stretching over 110 miles of country in that very short space of time? He could of course ride through a considerable number in that time, but of what value would be his inspections?

And at other times of the year, there are the village maps and the village records requiring inspections, and some two hundred patwaris, fifteen Girdawars, three Tahsildars, four Naib Tahsildars and other staff to control. It is most essential to take adequate steps to ensure that these new maps and records shall be from the very start of the new Settlement period kept year by year completely up to date. We have introduced a new khewat also, a simple thing enough in itself but becoming an intricate and quickly-changing document in a tract where the Bhayachara tenure of proprietorship prevails so widespread, with its frequent and numerous transfers and changes; a document of this character to retain its value must be corrected year by year at the time that proprietory changes take place: if the correction is by negligence deferred, the document will tend to come into almost inextricable confusion. A tight control must, therefore, be kept upon the working of the mutation rules by all concerned.

174. In short, it being presumed that the two districts generally will now be brought under fluctuating assessments, and that existing arrangements for their general administration from the revenue point of view cannot be immediately materially changed, the position is this, beyond question:—(!) that the detailed work of the assessments, their inspections and calculations, and of the control and supervision of the revenue staff must in both districts be entrusted to some permanent official with the requisite local knowledge other than the Collectors; but (2) that one man cannot possibly do this work for both districts.

For the present, therefore, under existing conditions, there can be no question—with reference to the recent latter No. 570-115-3, dated the 6th May, 1908 from the Government of India, to the Hon'ble the Chief Commissioner of Ajmer-Merwara—as regards retaining the appointment of the Revenue Extra Assistant Commissioner at Ajmer. If such an official was necessary then, he will be much more necessary now, if the proposed all-round fluctuating assessment system is introduced.

Not only this, but it must be added that it is imperatively necessary that either this Revenue Extra Assistant Commissioner be given an Assistant from the beginning of the new Settlement, or that a separate Revenue Extra Assistant Commissioner be appointed for Merwara.

On present circumstances I wish to urge this new appointment with all the emphasis that is possible—as a minimum requirement to give the new Settlement anything like a fair chance. It will mean increased expenditure, of course, but if the exigences of the public service are such that no revenue trained Collectors can be kept here for any length of time, with sufficient leisure to devote to keeping the revenue administration more in their own hands, the Government must be prepared to face the liabilities thereby involved. But, in the long run, the larger item on the expenditure side of the balance sheet would, I think, be counterbalanced by larger items on the receipt side: an additional Revenue Extra Assistant Commissioner, carefully conducting the assessments, adequately controlling the staff and getting all work properly done, should ordinarily save his own salary, by preventing leakage of the Government's just dues and safeguarding it from unnecessary recurring charges that might arise from neglect. But in any case, it is not the truest economy to shirk expenditure upon efficient supervision.

If the proposed system of assessment be approved, or if Merwara is not to continue as heretofore under fixed assessments, I will submit formal proposals with proposition statements for the retention of the present Revenue Extra Assistant Commissioner and for the appointment of a second man; but meantime I would state that my proposal is to continue the present post of Revenue Extra Assistant Commissioner as one for Ajmer District, on the present pay of Rs. 250 x 30 to Rs. 400 and to make a new appointment for Merwara on Rs.  $200 \times 10$  to Rs. 250. The two appointments should be graded together as senior and junior, promotion being ordinarily from one to the other, and the junior post being ordinarily reserved for approved candidates from the ranks of the Tahsildars. The junior Revenue Extra Assistant Commissioner should be subordinate to the senior Revenue Extra Assistant Commissioner, who would have a small central office at Ajmer for combining all returns for both districts for submission to the Commissioner, and such general statistical work in all matters concerning the rules for the maintenance of the system of maps and records, in order to prevent divergence in this matter in the two districts—but in the actual work of the assessments the junior Revenue Extra Assistant Commissioner at Merwara would be responsible only to the Collector of Merwara—the senior Revenue Extra Assistant Commissioner of Ajmer being similarly concerned with the Ajmer assessments only, and being directly responsible for these to the Ajmer Collector.

The statues and duties, however, of each will be defined in full detail when the general orders on this report are received. It is only necessary to add here that, although the drudgery of the work will be done in each district by these two Revenue Extra Assistant Commissioners, yet the Collectors must not be divested of all concern with the work. I would enforce his complete responsibility in the matter of the assessments. The assessing statements may come up to him with the calculations already worked out—but the actual assessments should be his and be considered as his alone. This is provided by rule 17 of the Draft rules of Appendix IV. And I would like to insist also that the Collector be required to have actually inspected a number of villages at each harvest time himself, and to have checked their Khasras and Khasra-extracts on the spot, and to have examined, at any rate in these villages, the character of the checking work done by the Girdawars.

Lastly, these two posts of Revenue Extra Assistant Commissionerships must in future be graded as part and parcel of the ordinary cadre of the Ajmer-Merwara Commission. It would be an unnecessary mistake to keep them outside as special posts. There is an Urdu proverb to the following effect, "bedil naukar, dushman barabar." But there is no need to run the risk of producing stagnation in these two appointments. If a junior Revenue Extra Assistant Commissioner exists at Merwara, there will always be a trained successor ready to take up the work of the senior post at Ajmer: and for the junior post at Merwara, any ordinarily intelligent Tahsildar who has had the training of a Naib Tahsildar and Tahsildar should be perfectly conversant with the system of assessments and records and able at once to perform the duties of the post efficiently. The post of the Ajmer Revenue Extra Assistant Commissioner, therefore, need, and should, not be regarded as one in which a man must be kept for his lifetime: on the contrary, the ordinary understanding should be that a man who does good and approved service as Revenue Extra Assistant Commissioner of Ajmer should be eligible for promotion therefrom to higher grades ontside with better pay. And such man, when promoted, should with their revenue knowledge be all the more valuable officials in their other posts.

I also strongly recommend that for each district a superior grade officer, as a Map and Girdawar Inspector, should be appointed. The primary function of these officials should be to see that the village maps are kept thoroughly up to date, but it should also be part of their duty to make periodical inspections of the registrar girdawar's offices, while at harvest times the Revenue Extra Assistant Commissioner should use them to heip in the check of the girdawari khasras and the supervision of the ordinary Girdawars. These posts should be reserved for men with good survey knowledge and training and of active habits, and these men should be brought in from wherever the best men for these posts are obtainable: the choice should not be limited to the local Girdawars necessarily. They would be required to tour constantly and to make continuous inspections of the maps, to assist and instruct the patwaris in difficult pieces of survey, to see that they make their new traces as required of their maps, when corrections have become thick, and to make arrangements for and take charge of any extensive surveying that might arise out of the ordinary routine. Within a little more than the last twenty years the two districts have had to be twice surveyed and new maps made. The necessity for a third elaborate Survey with all its attendant costs to all concerned and the disturbance that it creates, must be avoided. If with these Inspectors we can ensure, as we ought to expect, that at any future revision of Settlement nothing more than a special check of the ordinary annual map correction work will be required, the expenditure incurred upon their pay will have been well spent.

The patwaris are now being provided with copies of the new maps working eopies on cloth; and these they will be required, as in the United Provinces, to correct, where necessary, in red ink at cach Girdawari; the corrections being made directly on to the map itself, not on to separate slips which have been shewn by experience here to be a snare and a And ordinarily, continuous map inspection by a good set of delusion. the ordinary Girdawars and by the Tahsildars, Naibs and the Revenue Extra Assistant Commissioner should be sufficient to ensure that this object was being fulfilled. But, on present conditions, I have no feeling whatever of confidence in its fulfilment. The Revenue Extra Assistant Commissioner, however painstaking, could himself check only a very limited number comparatively of the 1620 map-sheets from year to year. The present Tahsilder and Naibs (without exception, I think) have had no training in survey; and the work of yearly map correction directly on the maps themselves is a simple art at present quite unfamiliar to the patwaris or Girdawars. Later on, when harvest-to-harvest map correction on the right lines has become a matter of settled habit with the patwaris and Girdawars, these proposed Map and Girdawar-Inspectors may be dispensed with. Till then, however, for the opening years of the new Settlement, at any rate, they are an important necessity. Inspectors exist, I believe, in the Central Provinces as permanent stuff.

Hitherto the work and offices of the registrar-girdawars have

practically never been inspected. These peripatetic Inspectors should now remedy this defect.

I would propose to give these Inspectors, one a pay of Rs. 75-0-0 per mensem and the other Rs. 50-0-0 or 60-0-0 per mensem, with each a horse allowance of Rs. 20-0-0 per mensen. I would not post them specifically to either district but would put them both under the orders of the senior Revenue Extra Assistant Commissioner, so that they can both be employed at any time where their presence is most needed, but it would be laid down that they should tour and inspect in both districts alike every year.

177. The present patwari school for Ajmer-Merwara at Ajmer must be split up into two branches, one of which must be located in Merwara. Service in Merwara is not popular with non-Merwara candidates, while the Merwara-bred candidates will not come, in sufficient numbers at least, to Ajmer for training as a patwari. But it is important that the almost inaccessible circles of Todgarh should not be left to depend on untrained men. The change which I propose here, however, involves only the insignificant additional expenditure of some Rs. 50-0-0 per annum.

I have already referred (in paragraph 169) to the necessity of reallocating the patwaris' circles, and also those of the Girdawars, to meet the new situation of fluctuating assessments. But there is another matter of which I may make mention here, viz., the question of the future custody of the village records -which has direct connection with para. 3 of the Government of India's letter under reference. All village records are at present left with the patwaris. In my opinion, however, the present system of Patwarkhanas is vicious, wasteful and dangerous. I intend to propose that all village records shall be kept in central record rooms of the tahsili and district Offices (the patwari being left with only one ordinary cloth "basta"-full of papers, viz., these in current use), and that the registrar girdawar be made the Record-keeper for these; but to help him with this work, and with some compilation work, of which also the patwaris should be relieved and which should be done in the Registrar's office, a muharrir should be given to each of the latter. The pay of these muharrirs, however, should be largely, if not wholly, met from savings upon Patwarkhanas in tuture.

#### Cost.

The apparent additional expenditure which all these proposals just outlined will involve is shown in detail in Appendix XIX; it amounts to Rs. 8,956, i.e., in a round figure, Rs 9,000 per year. This sum, however, even if it be not really recouped by increased receipts, or by savings elsewhere effected, will be a very moderate one if it produces the results which it is intended to produce; and in any case the bulk of it must be accepted as the direct inevitable consequence of having a fluctuating system of assessment, which necessarily involves increased work, and ealls for a greater measure of supervision than a fixed assessment. only item that could possibly be reduced is that of the Rs. 2,388 for the two Inspectors (vide the Appendix XIX), only one Inspector on Rs. 75 being appointed instead of the two proposed, leaving the increased expenditure at a little under Rs. 8,000. But even this reduction I would entirely deprecate. The other items I regard as absolutely irreducible: without the two Revenue Extra Assistant Commissioners, at any rate, in the present circumstances which obtain in Ajmer-Merwara, the idea of working a thorough-going system of fluctuating assessments in all villages had, I think, better be forthwith given up altogether.

I may mention, in conclusion, that the present proposal to have two Revenue Extra Assistant Commissioners is by no means a new one: for among the papers of Mr. Whiteway's operations I find that in his original proposals relating to the superior supervising staff, be also contemplated that there should be two Revenue Extra Assistant Commissioners, one

on Rs. 300 and one on Rs. 250. "In both districts," he wrote, "I consider that a Revenue Deputy Collector, or Extra Commissioner, is needed."

The part of the proposal for a separate Revenue Extra Assistant Commissioner for Mcrwara was subsequently dropped, apparently in order to concentrate all endeavour upon getting at least one Revenue Extra Assistant Commissioner appointed. But, if in the estimation of my predecessors two men were really required even then, how much greater is the need now, when the experience of the expiring Settlement has, I think, demonstrated that, in the conditions of Ajmer-Merwara where the Collectors cannot be counted upon to do any effective revenue work themselves, it has been physically impossible for the one Revenue Extra Assistant Commissioner to adequately control and supervise in both districts the work even of the existing system, and when we are materially adding to that work by instituting a system which will call imperatively for the closest and most constant personal supervision on the part of some responsible Officer?

# GENERAL.

179. Apart from general orders upon the actual system of assessments proposed, as set forth in paragraphs 86, 99, 101, 88 and 143, 90 and 91, 93, 94, 96 and 97, and in the proposed draft assessment rules in Appendix IV, specific orders are requested with regard to the proposals dealt with in the following paragraphs of this report, viz., 26, 110, 111, 112, 113, 114, 115, 116, 163 and 164, 174 and 175, 176 and 177, and paragraphs (17, 26 and 21) of Appendix I.

I would also call attention to the questions raised in Appendix II. Sanction to the rates set forth in paragraph 161 of the report is also requested; and I further beg to enquire what term of years will be fixed for the new Settlement.

I have the honor to be,

Sir.

Your most obedient servant,

W.J.E. LUPTON, C.S.,

SETTLEMENT OFFICER,

Ajmer-Merwara.

AJMER, 22nd August 1908.

# APPENDIX I.

Note on the existing methods of assessment of Tunk-lands in Ajmer-Merwara.

1. In the matter of the assessment of tank areas in Ajmer-Merwara, there are already two fluctuating systems in force which are now familiar to the villagers. The detailed rules regulating each of these are given in the Irrigation Rules in Volume-H to L of the Ajmer Regulations: but briefly, the distinguishing features of each system is that in the one the water revenue is taken by a rate fixed at Settlement, according to the crop sown, and is levied only on the area actually irrigated directly from the tank, while in the other the rate, within certain limits, is fixed at each harvest, and is leviable not merely on the area actually directly irrigated but on an area determined at each harvest by several considerations. The first system is very simple—the second is considerably complex.

Neither system, however, commands the unqualified approval of the cultiva-

tors; in fact, notwithstanding its simplicity and straightforwardness, the first system of crop rates, as at present worked, is distinctly rejected by them.

On the other hand, despite its intricacies and their complaints, the villagers nowhere really reject the second system: on the contrary, they admit the principle of the system as sound: their complaints are directed against certain detailed points in its working, not against the principle itself. I have, in fact, nowhere found that where this fluctuating system is in force, the villagers wish to revert to a system of fixed assessment on their tank-irrigated lands.

3. The complaints about the present crop-rate system are three in number. But these again are really concerned only with the working of the system and do not affect its essential principle. They are accidents, as it where, which are easily remov-

The complaints are (1) that the rates are too high and are oppressive, (2) that the same rates are taken for "lift" irrigation as for "flow," and (3) that the cultivators have to pay the full assessments at the rates for a four to five-anna crop as for a fullymatured 16-anna crop. There is, unfortunately, true ground for each of these complaints.

- 4. Under the rules as they now staud, firstly, no distinction is made between lift and flow irrigation: an acre "lift" irrigation pays the same rates as an acre of "flow" irrigation: secondly, a crop is to be considered as brought to maturity in which the yield, as estimated by the Assessing Officers, that is, in practice the patwari only, is anything over 25 per cent. of a full average yield; that is, a four-anna crop is considered as not matured: but a crop of 4 to 5 annas is considered a matured crop, as fully-matured one as a crop of 12 or 16 annas.
- 5. With regard to the question of the rate for lift irrigation—looking up the papers of the times, I find that under the previous rules in Ajmer-Merwara prior to 1884-1885, the 'lift' rates used to be one-half of the flow rates, and in Mr. Whiteway's memoranda submitting the draft of the proposed new rules, he distinctly states that these also contemplate that the "lift" rates should continue to be one-half of the flow rates.

Unfortunately, however, no definite provision to this effect was inserted underneath the schedule of the proposed revised rates, or at any other place in the rules, and in the subsequent discussions and re-draftings of the original draft, the matter seems to have been lost sight of. The new rules being finally issued without any definite provision as to "lift" rates, have since always been interpreted as prescribing the same rates for "lift" as for "flow."

In all the canal system of the United Provinces and of the Panjab, so far as I have been able to get access in Ajmer to papers relating to them, it is the usual custom for the "lift" rates to be appreciably lower than those for 'flow'—almost invariably the proportion obtaining is one-half. 'The closest parallel is furnished by the lakes or tanks of the Jhani and Hamirpur Districts (Bundhelkhand) of the United Provinces on which the 'lift' rates are one-half of the 'flow' rates.

The present anomaly in Ajmer-Merwara is thus an accident only, but the accident has been an unfortunate one, as naturally the cultivator who can get his irrigation only by lift and yet still has to pay the same water rate as his neighbour whose fields are watered for him at much less labour and expense by simple flow, sees

injustice only in the contrast.

6. With regard to the third complaint listed in paragraph 3 above, viz., that a full assessment at the full rates is levied on anything above a 4-anna crop, little needs to be said as regards the complaint itself. In theory of course, if there is water in the tank the area sown and irrigated therefrom should come to maturity, that is, a reasonably approximately complete maturity. But in practice this does not always follow,

and various influences may supervene which adversely affect the crops-such as blight, locusts, winds, frost, hail, or the like. Or the crops may even, through getting the permissible number of waterings, not get just enough water, or not get it at just the right time, whereby the yield of produce is diminished. I mean that the crop may result in only an eight-anna one, or a ten-anna one, or a six-anna one even, yet the crop is considered to have matured and has to pay the full rates.

7. But here another, and a serious, consideration comes in, which gives another basis to this complaint. It is this, that inasmuch as these tank lands are under special rules of their own, the ordinary rules for the remissions and suspensions of revenue for ordinary lands are not applied to these tank lands. Whereas, if the land were not irrigated from a tank, and gave only a 6-anna crop the burden of the revenue for that harvest would probably be lightened under these suspension and remission rules. These tank lands have not hitherto received the benefit of these, and thus the anomaly has been possible of lands other than tank lands getting a suspension or remission of revenue, while the tank lands in the same village, which may have equally suffered, have been ealled upon to pay the full water revenue because their out-turn has been above a four-anna yield. It has thus been an unfortunate result of these special irrigation rules that their application has removed these tank lands from the purview of the more liberal ordinary rules for the suspension and remission of Land

It is not enough to say that if the cultivators have taken the water from the tanks, they must pay for it, no matter what the erop out-turn may be, provided it is above four annas of the normal.

8. There remains, in regard to these 1st-class tanks, the question of the present rates

These are as under :--

STATEMENT I.

	Crors.			Pres	ent I	Rates.	Former Rates.
				Rs.	۸.	Р.	Rs. A. P.
1. Ordinary	Autumn C	Crops		3	12	0	3 2 0
		·		5	0	0	4 4 0
<ol><li>Ordinary 8</li></ol>	Spring Cr	ops	}	5	0	0	4 11 0
4. Sugar-cane		• •••		7	13	0	7 13 0
5. Rice	•••	•••		10	15	0	1 10 15 0
6. Gardens	•••	•••	,	11	14	0	10 15 0
7. Lucerne			\	5	0	0	
8. Opium	••	•••	{	7	13	0	
<ol><li>Sowing wa</li></ol>	tering for	Rabi		]	4	Ō	0 12 6
0. Double Cr	орз	•••					6 4 0

The rates are, of course, per acre and per acre sown only.

The areas under crops 4, 5, 6, 7 and 8, irrigated from tanks, are very small. The bulk of the sugar-cane grown in the district is grown in the Pushkar valley of the Ajmer tahsil, in the moist alluvial abi soils, therefore without tank irrigation.

The effect of the revision of the rates and rules at last Settlement was, it will be seen, to enhance the rates somewhat on all the more ordinary staples of cultivation.

9. For comparison I contrast these tank rates of Ajmer-Merwara with the rates prevalent on certain canals and tanks elsewhere:-

# STATEMENT II.

Ajmer-Merwara Class Tanks		Ganges & othe United Pro	er Canals, vinecs.	Multan (P Inunda Canal	tion	Jhansi and I Lakes, Bund United Pre	elkhand.
Crop.	Rate.	Crop.	Rate.	Crop.	Rate.	Crop.	Rate.
Gardens 11 Rice 10 Sugar-cane	14 0 15 0	Sugar-eane.	Rs. a. p.	Ricc \ Garden: \ Peppor \	Rs. a. p.	Sugar-Cane	Rs. A. P.
Cotton,   Spring-Crops   5	00	Tobacco Opium Vegetables Orchards Gardens Water Nuts Rice, and all spring Crops except Gram, Linseed and Peas.	1	Cotton Sugar- Cane Til.  Other Kharif Crops.	1 12 0	Rice Tobacco Opium Vegc- tables Gardens Water- Nuts.  All Rabi Crops.	2 4 0
Ordinary Kharif Crops 3	3 12 0	Gram Linseed Pens, and All Kharif Crops, other than thoso specified above.	2 0 0	Wheat, Tobaceo Vegetables and all other Rabi Crops.	0 14 0	All Kharif Crops not specified above.	1 20
Lift rates sar above.	me as	Lift rates rates.	above	Lift rates rates.	abovo a	Lift rates rates.	1 above
The land pays rate only, addi Land Revenue.	a dry itional	The land pa Land Revent addition.		The land pr Land Rev addition.		The land pa Revenue in	

Owing to much dissimilarity of conditions and revenue systems, the last comparative statement does not itself prove anything as to the Ajmer-Merwara 1st-class Tank rates. Nevertheless it does at least suggest that the rates on gardens, rice, sugar-cane and opium are, in the circumstances of the tract, somewhat high. They are at any rate considerably higher than those on the Multan Inundation Canals and on the United Provinces Bundelkhand Lakes. The rate of Rs. 5 also is similarly high as compared with rates on cotton and spring crops, elsewhere than the Ganges Canals system.

10. It is instructive now to compare the rates on these 1st-class tanks with those on the 2nd-class variable tanks in Ajmer-Merwara. As the rates on the latter class of Tanks vary very considerably, not only from year to year on each individual tank, but from one tank to another, the comparison required is best, and only safely, made by observing the effects for a number of years of the application of the actual rates imposed upon the areas on which they were imposed. This is done in the figures now given.

## STATEMENT III.

Showing the area irrigated and unirrigated in the rear of the Variable and Crop-rate Tanks in the Aimer District (Khalsa) together with the demand assessed thereon.

	VA	RIABLE TA	NKS.	Спо	P-RATE TA	NKS.	
Year (Fasii).		Arca irrigated (in acres).	Amount assessed.	Area un- irrigated (in acres).	Area irri- gated (in acrcs.)	Amount assessed.	Remarks.
1	2	3	4	5	6	7	8
			Rs.			Rs.	
1305	. 1,112	11,750	34,017		625	2,610	
1306	. 1,541	7,148	24,850	·	460	2,174	•
1307	. 352	4,521	17,472		272	1,011	
8081	3,354	9,275	33,584		976	3,737	
1309	249	6,612	22,069		459	1,951	
1310	. 1,425	7,199	25,651		646	2,591	
1311	1,726	7,462	27,442		369	2,721	
1312	1,442	5,444	21,855		269	1,273	
1313	. 106	1,324	4,635		16	85	
1314	. 406	12,662	37,197		963	4,168	
Total	. 11,713	73,397	2,48,772		5,055	22,321	
Average	. 1,171	7,340	24,877		506	2,232	
Average rate po	er 8,5	511	2-14-9		506	4-6-6	

Note.-The rates here shown are for water revenue only, exclusive of any Land Revenue.

This statement gives only the actual talabi soil areas which year by year for the last ten years have been cultivated as such under the two classes of tanks. The unirrigated is the land demarcated as talabi which was not, however, irrigated from tanks in the particular year. But it shows, on the basis of actual facts, that the cultivator of talabi soil under a first-class tank has been paying very considerably more for his acre of irrigation than his confrere who can draw his supply from a secondclass tank.

11. But again the enquiry is still incomplete. It is possible to suppose, for instance, that the advantages of first-class tank irrigation are greater, or the soil under first-class tanks is superior, and that the profits on first-class talabi soil are greater, than those on second-class talabi soil, so that the cultivator of the former can afford to pay more than the cultivator of the latter, and he is compensated for the higher rate by a higher yield, or by more lucrative crops.

Whether this supposition, however, has any basis or not, is shown by a further investigation which has been made, the results of which are exhibited in the follow-

ing comparative statement IV.

# STATEMENT IV.

Abstract Statement showing Area, Produce, Price and Value of Tank Irrigated Lands (assessed areas), District Aimer.

		Value per acre.	13	80-01 47-32 69-74 20-69 5-43 6-96 9-99 7-47 100-22 50-52 50-52 50-53 100-22 13-93 13-93 13-93 13-93	27.36
S.	Before).	Price per maund.	18	2012 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3.19
ALL TANKS	Yrves As Br	Value.	11	4,123-64 1,49,392-86 64,790-39 2,208-02 7,386-03 1,007-10 2,323-64 6,446-19 21,256 69,575-41 3,236-32 22,252-01	349,784
O.F.	or 11 Y	Produce.	16	137-68 467-70 9-25 9-25 9-25 9-25 1-31 7-3-6 7-3-7 7-3-7 7-17-7	8.57
TOTAL	(AVERAGE 0	Produce.	15	7,096.00 26,093.00 33.36 29,061.00 901.27 293.45 300.82 48.73 1,190.64 3,148.72 6,400.64 3,647.09 1,108.91 8,053.91	109,549
	r	Arcn.	14	51.51 3,157.18 3,131.73 406.82 106.27 186.63 134.73 7.18 2.54 58.09 269.63 929.54 2,990.61 232.36 1,123.19	12789
Ŋ	JNO	Value per	13	80.00 47.27 69.727 6.529 10.03 10.36 1	27-66
FIXEL	F. OMPPENO	Price per maund.	121	10000000000000000000000000000000000000	3.19
INV	13n2—11 Fari.	Value	11	3,789.09 1,44098.98 50.91 2027.89 1,752.22 930.85 249.26 154.55 13.64 2,174.55 5,935.64 19,558.12 63,564.21 3,120.39	3,30333
ASSESSE	11 rears and 1310	Produce per acre.	01	147-12 88-25 88-25 9-50 9-70 19-36 19-36 19-36 19-36 19-37 17-73 19-36 19-36 19-36	8.67
VARIABLY-ASSESSED TANKS.	308	Produce.	0	6,967-82 33.36 33.36 33.36 33.36 316-00 317-00 317-00 317-00 11.82 1,063-11 5,893-91 5,893-91 5,893-91 1,066-91 7,017-27	1,03554
٧A	Ауеваоп 1	Arca.	S	80.01 47.36 48.453,047.91 7.31 19.153,035.27 5.49 3.51 9.10 7.63 1.74.27 7.63 1.74.27 7.63 1.74.27 7.63 1.74.27 7.63 1.74.27 7.18 1.74.27 7.18 7.18 1.74.27 7.18 7.18 1.74.27 7.18 7.18 7.18 1.74.27 7.18 7.18 7.18 1.74.27 7.18	11943
	1308	Value per acre.	7	80.01 48.45 19.15 5.49 8.51 9.10 7.63 39.94 31.98 25.28 19.40 17.52	22.99
S.	MITTING	Price per	9	44.05 20.02 20.02 20.02 20.02 20.03 20	3.26
	rears 1302-14 ompting 1308 and 1,310 Fasel	Value.	5	334-55 5,293-88 1,847-16 180-13 71-13 112-53 76-25 100-00 149-09 540-55 1,698-51 6,011-20 6,011-20 6,011-20 2,920-29	19451
DP-RAI	AND 1,	Produce per acre.	4	30.67 8.17 7.61 2.57 3.52 1.65 2.10 37.02 11.66 7.45 7.45 7.45 7.45 6.04	7.09
ORC	dr or II	Produce,	3	128-18 926-00 734-09 84-37 20-45 21-00  2-27 138-09 180-18 500-73 2181-64 42-00 1,006-64	5,995
O HOTALLY	AVBIG	Агеа.	62	4-18 109-27 96-45 39-82 12-83 10-00 11-00 11-45 67-18 8-36 10-6-64	918
	dOab		1	Gardens Cotton (uncleaned) Sugar-cano Maizo Jowar Bajra Mung Rico (unhusked) Lucerne, &c. Tobacco Vegetables Miscellaneous Wheat Barley Gram Garam	Total

12. The figures for this statement have been taken from the statements in the Ajmer-Merwara Annual Irrigation Reports for the eleven years indicated, except that the valuations in column 4 of the statement have been re-calculated at the retail prices referred to in paragraph 118 of the report. Although these retail prices are, of course, above the harvest prices, yet, inasmuch as the same set of prices is used for each of the classes of tanks, this point does not affect the present comparison. The figures for variable and fixed tanks are not available separately in the Annual Irrigation Reports; the figures for both these classes of tanks are shown lumped together only, and their separation now, which would involve a vast amount of labour of Khasra extraction, is also not really necessary for the present purpose.

It must be remarked further, in passing, inasmuch as the average figures now shown in this statement are much above the average figures shown in the immediately preceding Statement III, that in this present Statement IV, the areas shown are not merely the areas of talabi soil irrigated or irrigable, but include the actually cropped and "assessed" areas and the dofasti areas. And what the "assessed" area may mean can be seen by a reference to the Irrigation Rules, more especially to

rule 16.

13. This statement lends no warrant to the supposition that the lands under 1st-class tanks give a better yield or give more valuable crops than lands under the 2nd-class tanks.

On the contrary, its figures conclusively, I think, prove the direct reverse of that supposition. And from my own observations at inspections I can add without hesitation that the *talabi* soils irrigated from the 1st-class tanks are in general, possible exceptions of a few acres here and there apart, not superior to the *talabi* soils in the rear of 2nd-class tanks.

At any rate, not to press the figures further, the statement shows that, over a period of eleven years out of the past thirteen years at least, the out-turn per average cropped and assessed acre of talabi soil has been some 23 per cent. greater in the variable and fixed tanks than in the 1st class tanks, while the average crop out-turn value of an average cropped and assessed acre of 1st-class tank irrigated soil has been some 20 per cent. less than that of an average acre of talabi soil of the other tanks.

14. The enquiry can be carried further with a view to demonstrating what should be fixed as fair absolute rates for the talabi soils of the several classes of tanks. But even so far as it has gone, the present enquiry proves clearly enough, I think, that when the cultivator complains as he does that the first-class crop rates, as now current, are too high,—that is, high as compared with the average rates levied on 2nd-class tanks—he has at least a solid basis for the complaint.

He says that they are oppressive—at any rate\* on an average acre he has to pay Rs. 5-0-6 water-rate and Land Revenue out of his Rs. 18-6-6, which leaves him Rs. 13-6-1, while the cultivator of talabi land of other tanks pays only Rs. 3-8-9 out of

his Rs. 22-2-1, and retains Rs. 18-9-4.

So long as this difference remains—whether for the moment it be that the variable and fixed tanks' present rates are too low and not that the 1st-class tank rates are too high, or *vice-versa*—at any rate the present 1st-class crop-rate system will not commend itself to the people.

- 15. The present 1st-class tank crop-rates are based, as already indicated in paragraphs 5 and 8 above, on previously existing rates. The latter had been fixed between 1874 and 1883, on the report of a certain committee which had investigated this and other kindred subjects, about 1876, in the course of whose proceedings high rates had already been advocated as necessary to secure a fair return to Government on its outlay in constructing tanks. In drafting the present Irrigation Regulations and Rules, Mr. Whiteway the last Settlement Officer, was of opinion that even these previous rates were still too low. His discussion of them and his reasons for proposing the present higher rates are given in paragraphs 14 to 18 of his letter No. 125, dated the 24th April 1885, to the address of the Commissioner of Ajmer-Merwara (copy of which was forwarded to the Hon'ble the Chief Commissioner, with the Commissioner's letter No. 520 G, dated the 21st May 1885). But, briefly, his main argument was that the existing rates on 1st-class tanks were lower than the rates paid by the better variably-assessed (Class II) tanks, and should therefore be raised.
- 16. The argument, of course, proceeds either on one assumption that all Class I. tanks are equal to the best Class II. tanks, or on another that, although possibly not equal, the 1st-class tanks should pay at a higher rate relatively to the 2nd-class tanks, for some such reason as that, in addition to the normal water revenue on the tanks something more should be taken towards the cost of the greater and more recent expenditure by Government in constructing these new tanks.

- 17. But as regards the first stated assumption, it may be doubted whether Mr. Whiteway, had he had the benefit of the figures which have now been given in para. 11 above, would now make this assumption at all, while as regards the second assumption, the question should now be settled whether the assessment of 1stclass tank lands are to be pitched at the same percentage (one-sixth) of the gross produce as that prescribed for all soils in the district generally, or whether at a higher standard, vide para. 121 below.
- 18. The figures given above, in the statements in paras 10 and 11, show the average annual value at retail prices of an aere under 1st-class tanks to be Rs. 22.99; while the water revenue per aere is Rs. 4-6-6. Annas ten (0-10-0) per aere for the land in its dry aspect being added for Land Revenue, the total charge on the acre cultivated and assessed as irrigable is Rs. 5-0-6. Reducing the Rs. 22.99 by 20 per cent. (vide para. 121 of this report, to allow for the excess of retail prices) and obtaining Rs. 18:40 as the value per acre to the cultivator we find that the latter has at present to bear a charge of Rs. 5-0-6, or 27'3 per cent. of the value of the gross produce. On the other hand, the 2nd-class and other tanks bear only 15'6 per cent. of the average value of their gross produce, viz., Rs. 27'66 reduced by 20 per cent.—Rs. 22'13; water revenue—Rs. 2-14-9, which, plus 0-10-0 per acre as Land Revenue on the land in its dry aspect, gives Rs. 3-8-9 per cropped acre as the impost, and Rs. 3-8-9 (3.547) is 15.6 per cent of Rs. 22.13.

On the basis of one-sixth of the gross produce as representing the maximum Government demand, it will be seen that Rs. 3-8-9, the present average land plus water revenue rate, is, on the recorded figures, just about right for the 2nd-class and other tanks, or, a full one-sixth being taken, the average rate per aere of cropped area should be about Rs. 3.70, or in round figures Rs. 3-11-0. On the same basis, the average rate for land plus water revenue on a similar aere irrigated from a 1st-class tank should be one-sixth of Rs. 18:40, or Rs. 3-1-3 roughly, say Rs. 3-2-0 only.

19. In sanctioning the rates for 1st-class crops as proposed by Mr. Whiteway and his Committee, and as still current, the Hon'ble the Chief Commissioner wrote as follows (vide para. 11 of his letter No. 1112, dated the 10th October 1885, to the

Government of India):—

"(11). Annex C.—In paragraphs 14 to 18 of his letter,\* Mr. Whiteway discusses the proposed rates at full length, and endeavours to show by three distinct methods of proof that the new rates, though higher than those hitherto prevailing are still not unreasonably high. Although I consider that the premises, from which the Settlement Officer starts, are perhaps of somewhat too sanguine a character, I believe that his conclusions are on the whole correct, and I propose to sanction the new rates, at all events tentatively. Should it be found in the course of a year or two that they press with undue severity on the cultivator, the Chief Commissioner will be able at his discretion to reduce them: but I do not anticipate any such necessity."

These rates, however, although thus tentatively sanctioned only, with some misgivings apparently, have not since come up again for discussion until now, when their reconsideration is forced upon us by the current revisional Settlement operation.

20. But from all that has been given in the foregoing paragraphs, I think that there is no doubt that, relatively to the rates assessed on the other tanks at least. these tentative rates on the 1st-class tank lands have now been shown by actual experience, on the assumption of course that all tanks of all classes are to be assessed with reference to a uniform standard of one-sixth of the gross out-turn, to be too high.

If, however, any standard higher than this is to be fixed for the 1st-class tanks, I would solicit that such a standard should be definitely fixed and announced to me,

so that I may proceed to determine the acreage rates accordingly.

21. The principle of adding something, to allow for Government expenditure on "new" tanks (of which description Class I. tanks have hitherto partaken) to the amount of revenue otherwise assessable, is certainly not an unfamiliar one in Ajmer-Merwara. Thus, in the proceedings of Irrigation Committees on new tanks in the Eighties, it is definitely stated as an axiom that "high rates must be charged in order to secure a fair return on the outlay on the construction of the tanks," and Mr. LaTouche, in para. 183 of his final Settlement Report, relates how Colonel Dixon, tho great tank builder of Ajmer-Merwara, in conducting a revision of assessment in 1849, added to the sum which he would apparently have otherwise fixed as the jama of a village, an amount estimated at 8 per cent of the sum expended on tanks in that village—that is, presumably comparatively new tanks only.

But I do not know whether this principle would be acceptable to the higher authorities now. Personally I by no means advocate its adoption. In my opinion, all tanks of all classes should be assessed on one and the same basis: the Government should not take a higher revenue proportionately from the newer 1st-class tanks, as so called at present, but should be content to recoup itself for its expenditure thereon, as it does in the case of new canals, from the receipts accruing from the ordinary rates on other tanks applied to an expended irrigable area, and indirectly from the diminished expenditure on 'Famine Relief' and diminished losses from remissions of revenue which might otherwise be counted on in the portions of this precarious tract in which the tanks in question did not exist.

- 22. To come now to the 2ud-class variable tanks, the system under which these are now assessed has undoubtedly worked very well since its institution by Mr. LaTouche, and has secured not only to the cultivators and to the Government in a large measure the advantages of a fluctuating assessment, but has on the whole—an excellent test of its efficacy—obtained the firm approval of the people. Nevertheless the system, as now developed in the existing Irrigation Rules, has or leads to certain anomalies, and the cultivators have certain complaints against it—most of them reasonable complaints, I consider. These anomalies and causes of complaints should now be removed. Moreover, the system is somewhat intricate in its working and, in accordance with more modern-day conceptions, the revenue assessments on these tanks should now be simplified to a considerable degree.
- 23. As the complaints and anomalies are somewhat numerous, they may best be considered by examining the rules concerned from among the Irrigation Rules applicable.
- 24. Rule 5 of the Irrigation Rules (page 436 of Volume H to L of the Ajmer Regulations) which contains the essential principle of the assessment of these 2nd-class Variable Tanks, provides that a standard talabi area and a standard assessment shall be fixed at Settlement, together with a fluctuating rate which may vary between certain fixed maximum and minimum limits, and that the revenue shall be assessed by this varying rate, which shall rise or fall within its maximum and minimum according to the area to be assessed at each harvest and with reference to the standard area and standard assessment. When at any barvest the assessable area is small, and this, divided into the standard assessment, would give a rate higher than the fixed maximum rate the latter only is imposed and the balance of the rate otherwise indicated is remitted. When, on the other hand, the assessable area is greater than the standard area, and the rate falls consequently below the minimum standard rate, the latter only is to be imposed and the surplus collections are credited to the Government.
- 25. The application of this system is best understood from observing a concrete instance of an assessment, and such as one is given in para. 264 of Mr. LaTouche's Report. The standard assessment is a lump sum which, by the device of the varying rate fluctuating between the maximum and minimum limits, is to be secured, or at least aimed at, every year. The advantages of the scheme are stated by Mr. LaTouche to be that:—
- "First.—A certain amount of stability is secured for the water revenue, for in all ordinary years there will be neither remissions nor enhancements."
- "Second.—When water is scarce, it may be safely presumed that those who can get it make larger profits out of it than they can when it is plentiful. In such years they pay a higher price for the water. On the other hand, when water is cheap and plentiful those who get it pay less than the assumed rate. In no case does any man who does not get water pay anything."
- "Third—It is the interest of the headmen and of each zamindar within the minimum, i.e., in all ordinary years, to economize and spread the water, for each man's revenue is lightened thereby, while for the same reason it is the interest of each to bring within the irrigated area all land actually irrigated and to prevent any one of their number from defrauding the Government."
- 26. This system, on which Mr. LaTouche was complimented by the Government of India for its ingenuity, was most certainly a great advance on anything that had gone before in laying down some workable method of assessing the revenue on tank lands, and has, so far as its scope allowed, worked so successfully that it is now an invidious task to expose its imperfections. But, with reference to the first of the three above advantages stated by Mr. LaTouche, the strain after this stability in the revenue has, I think, acted to rob the system of much of its efficacy in solving the essential problem of proportioning the revenue to the character of the ontturn. The first and second advantages stated by Mr. LaTouche really go together and they would no doubt be true, and the system would act in the manner indicated, in a region where pure economics reigned. But it is not safe to assume that the agricultural conditions of Ajmer-Merwara are those of such an "economic" region, and that

the cultivators here are free to sell in the best market and to compensate themselves for a smaller out-turn by a higher price on what they have. In the first place, there is nearly always the village money-lender between them and the free economic market outside. The cultivator does not get past the former into this market with any surplus produce he may have. The money-lender takes over this surplus produce, and generally the whole crop, which the cultivator and his family have already eaten up in anticipation by loans from the money-lender. In the second place, what produce there is in Ajmer-Merwara, in a year of restricted area at any rate, is practically all required as food for the cultivating population itself. There is comparatively very little only that could be offered for sale and bring the producer the benefit of the high prices prevailing.

- 27. I mean that ordinarily the cultivator's produce is not for sale at all in the sense in which he can secure any real advantage from high prices. On the other hand, the small necessaries of life which he requires, but cannot produce himself, also go up in price in tone with other prices—a definite and very real handicap this, as opposed to the above at any rate problematic, if not wholly improbable, advantage—while ordinarily a year of scarce water means to the cultivators in general a reduced area of food crops, possible insufficiency of food, and a probable prospect of want. In such times it is of no use to tell a man who requires two loaves to support life and now has only one, that this one loaf that he has is now worth double, worth as much as the two loaves used to be, in the open market. Even if, in order to reap the advantage of the higher price, he promptly sold his one loaf now for the price of two loaves of a season before, yet he still wants to eat, and, buying something to eat with the price obtained, he could still only buy the equivalent of one loaf back again in the present season. Of course, if he had three loaves, and one of these was not required for immediate necessities, he could sell this surplus loaf and benefit from the higher price. But for the point under consideration—it is exactly in these seasons of scarce water and high prices ordinarily that there is no surplus produce—on the contrary, the usual situation is that the grain out-turn is hardly up to, or is decidedly below, the ordinary requirements.
- 28. Thus, in the cyes of the people this system of assessment on the second class tanks has the grave defect that in a bad year when the irrigated area is small, and when, even if the out-turn of each acre of this area is good, the total stock of produce for the village is curtailed, the State steps in and exacts a higher rate of assessment—a rate which may be very much greater than in a good year of ample rainfall when a large area is cropped and the village reaps a large stock of food.
- 29. In a good year, for instance, when the cultivators have had a good harvest and food supplies are plentiful, the rate would be the minimum (Rs. 3-12-0, say), on their tank lands.

The next year is a bad one—the area of produce small and the out-turn not sufficient in the total, though it may be up to the average per individual acre, to replenish the already-depleted food stocks. The cultivators are already discouraged with the unfavourable circumstances of the year and not hopeful of the future.

It is in these conditions that this present system of assessment on these secondclass tanks compels the District Officials, in order somehow or other to secure the "certain amount of stability in the water revenue" (advantage first of para. 25 above) to step in and impose a rate of Rs. 5-0-0 per acre,

- 30. The incubus of the standard demand is upon them and they cannot escape it. Their aim must be to get up to that standard demand as near as possible—getting what consolation they may out of the assumption that although the cultivator's stock of grain is small, yet at any rate he could get a good price for it now if he wanted to sell it, and could scll it in the open market.
- 31. This is not by any means mere  $\bar{a}$ -priori criticism of the system. Far from it, it is an actual grievance of the people—in an expanded form perhaps but openly stated by them. No amount of reasoning or argument will make them admit even the theoretical fairness of the position stated in advantage second of para. 25 above. The theory of prices, or their effects upon which it is based, they refuse to understand. They see only that in a bad year when their cultivated area is much curtailed and their resources, on which they have to live till the next scason, are also, sometimes seriously, diminished, the Government steps in and exacts a heavier water-rate.

They look only at the Rs. 3-12-0 in a good year, and the Rs. 5-0-0 in a bad year—for the same tank, same land and same water, and they simply say that they do not appreciate the situation.

And I do not know that we are right to say, as economists simply, that this grievance is merely a fancied one—in the circumstances of Ajmer-Merwara.

32. There is, however, one way in which the working of this system does produce at times very real inequality which has no argument of economic theory of prices to defend it. This is as follows:—

Under rule 17 of the Irrigation Rules the rate for the Kharif harvest is fixed with reference to two considerations, viz: (1) the actual area cropped in the Kharif harvest, and (2) the amount of water still left in the tank and the prospects of the area likely to be irrigable for the ensuing rabi harvest.

If the area irrigated for the rabi harvest is likely to be large the assessment rate for the Kharif harvest is low, the amount collected for the Kharif is thus correspondingly low, and the amount remaining to be collected from the rabi harvest, in

order to realise the balance of the standard demand, will be correspondingly large. Now take, what is always possible, and has, I understand, sometimes actually happened, a year in which the Kharif assessment rate was pitched low, although the harvest was a good one, because the prospects for the rabi harvest were at the time good, but in which, after the Kharif assessment was made, the rabi crops are adversely affected by frosts, or high winds, or blight or any other influence. The standard demand, however, has still to be made up, and in order that this may be done, a high rate has to be imposed, notwithstanding the poor crops. That is, the poor rabi has to pay for the deficiency in the amount collected at the Kharif, its own relative poverty having to be disregarded because of this spectre of the standard demand.

- 33. Of course, in the total for the year, it can be argued that things have righted themselves: the disproportionately high rate on the rabi being compensated for by the low rate on the Kharif. And this may be so in theory and for the village as a whole. But the cultivators who pay the high rate at the rabi on scanty out-turn are not necessarily the same cultivators who paid the low rate on the good Kharif crops, and even if they are, the people look not at the low Kharif rate, but fasten their game on the high rabi rate on its year errors and again was a gricumper. their gaze on the high rabi rate on its poor crops, and again see a grievance.
- 34. And again, as in the case of the Ist-class tank, these tank lands, being under special rules of their own as to what constituees maturity, do not benefit from the ordinary Rules for Suspension and Remissions of Revenue applicable to other These rules are not at present at any rate usually taken as applicable to tank lands. Were they applied, a six-anna or eight-anna crop only on tank lands also would be entitled to receive the benefit of a proportionate suspension and possible remission. The tank lands are, however, held as governed only by the tank (irrigation) rules and these have no definite provisions for any crops intermediate between four annas and sixteen annas. A four-anna or less crop only escapes—a five anna, or six anna crop must be assessed at the same rate as a full normal crop.

The anomaly was thus observed only this year 1315 Fasli, that notwithstanding that lands other than tank lands in some villages being declared to have had only a six-anna or eight-anna Kharif crop, were receiving proportionate suspensions of revenue under the ordinary Revenue Rules, yet the tank lands whose crops also in some cases were appreciably below the normal, were as-essed—the area irrigated being small-at the full maximum rate, and the villagers received the call to pay up at once the full assessment at this maximum rate on their tank lands at the same time that they received the announcement of a reduced demand on their other lands.

- Rule 8 of the Irrigation Rules is sometimes complained about on the ground of delay. It is not always possible for the Revenue Extra Assistant Commissioner, or other officer, to proceed to the spot at once and inspect the crop, and meantime damage may be caused to it by its being left standing too long.
- 36. Rule 11 is, however, bitterly complained against, and certainly, in its working it has at times caused real hardship and oppression in the recent series of dry

years, and gives rise to a genuine grievance.

The rule provides that land assessed at well rates at Settlement may be given tank irrigation, but shall pay for the tank water at the rate of Rs. 5 for the harvestthis rate being in addition to the chahi rate already assessed on the land. That is, the cultivator is charged a double wet-rate; he bas, anyhow, to pay his Rs. 4 (or more) chahi rate, whether his well is working or dry: and, in addition, he has to pay Rs. 5,. i.e., Rs. 9 in all at the least for ekfasli land—a very high rate.

If he double-crops it he has to pay Rs. 14 per acre in the year, a rent which

relatively for Ajmer-Merwara can only be called crushing.

Further, if driven to extremities owing to his crops perishing from want of water, he dares to take tank water for his field without first obtaining permission, he has to pay Rs. 7-8 instead of Rs. 5 extra, that is, Rs. 7-8 in addition to the well-rate of Rs. 4 or more. Rs 11-8-0 for the one harvest! on land which at Settlement was adjudged to be sufficiently heavily taxed at Rs. 4 for the whole year.

The argument on which this draconian measure is based is, of course, that a man with a well shall use that well and so leave the tank water free for other fields not commanded by a well—it is an endeavour to ensure that that precious article in

Ajmer-Merwara, water, shall be made to go as far as possible.

At the same time the rigidity of the present revenue system has undoubtedly made this rule oppressive and unjust. If the man's well has water in it sufficient for irrigation, by all means insist on his using it, and discourage him from drawing on the tank supply. But where, as so frequently happens in dry years, the well is dry, surely we should try to let him have the tank water if available, and if we let him have it, we should charge only at the ordinary rates that other cultivators are paying, and at the same time remit altogether his Settlement chuhi rate for that harvest. He should pay at most his Rc. 0-10-0 or Re. 0-12-6 dry rate on the land only plus the Rs. 3-12-0 to Rs. 5 tank rate. To crush him with Rs. 9-0-0 or Rs. 11-8-0 is not only unfair but is in the long run bad policy.

38. Rule 16 also produces several anomalies. I have already referred to the question of the "lift" rates: but there is another point in connection with this rule which descrives notice. This is, that the escape nalus from some tanks often contain small pools of water, and to utilise this water which would otherwise largely be lost by evaporation, kacha "lifts" called locally "odhs" are constructed. These odhs, however, are counted as wells under this rule, and again the full tank rate is taken.

The cultivators themselves have complained to me of this full rate here, and I am inclined to agree with them. The present system discourages initiative on the part of the cultivators to use this escape water. But we ought to encourage them to use it, and, to avoid penalising their enterprise we should let them have the water at an

easy rate, say half rates.

Closely akin to this matter—though it does not itself fall within the purview of rule 16-is another anomaly which also discourages enterprise and, further, works

to the loss both of the cultivator and of the State.

It is connected with the assessment of crops sown in the bed of a tank. Here the soil is generally moist enough to carry the crop, with the help of a little winter rain, through the growing scason up to reaping time. On the other hand, it often happens that the crop would be greatly benefited and its out-turn very largely increased by a little timely irrigation, nay, in a dry year, the crop may be saved from entirely withering by a little irrigation. There is water in the subsoil at an easy depth—lots of it—very largely increased by a little irrigation. if the cultivator digs a pit, a kacha, unlined, temporary hole in the ground, and takes water therefrom, this hole is counted as a 'well,' and the full "well" rate is exacted. The effect is that these kacha wells are not made, and the cultivator, watching his crop grow up stunted and thin, or actually wither, again nurses a grievance.

In my opinion, however, any harm caused by these occasional 'pits' would be far outweighed by the good they would do, and we should rather encourage the cultivators to make and use them than impose prohibitive penalties on such enterprise.

40. Returning to rule 16.—Clause (2) of this rule causes violent complaints. Under this clause any land lying within the tank area giving an autumn crop, whether such crop be irrigated or not, must be assessed as irrigated and pay a water-rate, if there is water in the tank.

The argument on which this rule is based is (vide para. 83 of Mr. Whiteway's Final Settlement Report) that the water was there for use if needed, and that the erop must pay for the protection and security thus afforded by the tank maintained at Government expense. A concession is so far made that a crop not actually using the water pays three-fourths only of the full rate.

The people, however, do not understand, or at any late, refuse absolutely to acknowledge the fairness of this argument—the taking of any water-rate when no water is taken from the tank. They denounce it in unmeasured terms as oppressive and

grasping.

I also think that it is now time to give up this argument—at any rate as inconsistent with the spirit of what should be the revenue policy. Even three-fourths of the full water-rate is too grasping for us to take for what after all we do not give. If the crop can come to maturity without the help of the tank, it means that the season's rainfall is so propitious that nothing further is required. It is nature, and not the

Government, that is furnishing the crop's security and protection.

Moreover, the water which is not used up for the Kharif crop is there available for the rabi crop-evaporation is not great at this season, and what water sinks in the soil goes to help the wells somewhere or other, and these again increase the chahi out-turn and the total produce—and it can be used up then and help to bring a larger irrigated rabi area to maturity. The State should consider itself as sufficiently recouped from the latter; it should not show itself to the people as a grasping water purveyor, exacting double payment for the one quantity of water, once for water which it has not supplied. The guise is an unfortunate one of seeming meanness which is totally contrary to its real intentions, and entirely obscures the latter in the eyes of the people, producing only the unhappy result of discontent.

- 41. Clauses (3) and (4) also of this rule 16 are the subject of complaint, and sometimes do undoubtedly act oppressively. For instance, apart from anything else, if only one watering is received and no winter rains fall, and the crop comes practically to nothing, drying up in its latter stages and giving next to no out-turn of grain—nevertheless, the full area sown has still to pay one-third of the water rate, whatever be the character of the out-turn.
- 42. Rules 17, 18 and 19 are the rules for the actual assessment of the water-rate for both the autumn and the spring erops. As a perusual of these rules will, I think, show, they are not at once patently comprehensible even to a trained Revenue Official. At any rate they are not easily understood by the cultivators, who, on the whole, entirely distrust them. The only real view which they have about them is that in the general run of things these rules are usually worked to their disadvantage by the Revenue Officials.
- 43. There are one or two others matters in connection with the remaining Irrigation Rules which merit consideration. For instance, rule 23 is not wide enough: Rule 28 as worked has meant often that such permission is very difficult to obtain: while the watchers appointed under rule 34 are sometimes a fertile cause of grumbling, from being kept on after the tank is empty.
- 44. But enough has, perhaps, already been written to show that in several essential matters of importance, at any rate, the present Irrigation Rules do fail from the point of view of proportioning the demand to the actual erop out-turn, and that from this point of view they should now be considerably improved or superseded. In essence they are vitiated by two prime defects, viz: (1) they aim too much at stability of the annual water revenue demand, and (2) the basis of the actual demand is the mere sown area and not the erop out-turn. The fetters which, under the first, bind the Assessing Officer down to the standard demand should now be removed: more expression must be given to the principle of elasticity. Secondly, the actual demand should have direct reference to the erop out-turn. This, and not the mere sown area, must be made the basis.

Finally, the present variable system on second-class tanks is over-complex: something much simpler is required.

45. The whole set of these Irrigation Rules—at any rate, so far as assessment is concerned—should be revised. The present classification of tanks into four classes may go. They should all, if possible (and there should be no real difficulty in this) be brought into one class and under one simple system—one which combines with simplicity of working the proportioning of the demand to the actual crop out-turns. Of the two variable systems for tank assessments at present in force in Ajmer-Merwara, neither is suitable as it stands as satisfying this test. What I think is required, as best suited to the precarious and fluctuating circumstances of Ajmer-Merwara, is a system resembling the present crop-rate system on first-class tanks, in taking a rate per crop, or rather classes of crops, on the area sown, but taking the full rate only on the matured cropped area, and otherwise proportioning the actual recoverable demand to the actual crop-outturn on all tanks.

W. J. E. LUPTON, C.S.,

SETTLEMENT OFFICER,

Ajmer-Merwara, Ajmer.

15th July 1908.

#### APPENDIX II.

- Note on the 4th-class Tanks of Ajmer-Merwaru, the desirability of these being taken over by the Government: and on the subject of repairing other old Tanks.
- 1. The fourth-class tanks of Ajmer-Merwara are at present most of them in bad order, and the total area irrigated from them is at present small. But they are numerous (vide the figures given in paragraph 16 of the report), and if they were put into good order and made effective in each case for irrigation the average inigable area could be appreciably increased.
- 2. These tanks belong to the villagers: they are not at present maintained by the Government. But so long as these remain purely village tanks there is little hope, I think, of these tanks generally being put into, and kept in, decent repair. The villagers generally have neither the means nor the ability to repair and maintain them. Even where the means might be forthcoming, the village organisation, of a vast, incohesive, brotherhood of numerous independent proprietors is against common action and initiation. I have seen many a broken embankment which the villagers could themselves easily enough repair in a few days, if the proprietors could all be got together to turn out and give a day or two's labour to the earthwork, and if a few rupees were expended from the village Shamlat fund. But the repairs are not done, and the tank lies useless as such for years, while the villagers lament the loss of the irrigation. When questioned in such cases, they say frankly "if Government will do these repairs, they will be done: if Government will not do them, they will not be done."
- 3. To leave matters as they are, to rely any longer on the illusory hope of the villagers keeping these tanks going, will only mean further deterioration. But in the circumstances of Ajmer-Merwara, it would be a great pity to stand by and see these potential sources, if small yet numerous, of irrigation and protection fall into utter disuse and ruin.
- 4. These tanks will never be kept really effective until the Government maintains them at its own expense. And I would submit that there is no question whatever that the Government should somehow or other put and keep them in effective use. Any remarks as to the beneficial effect of tanks are of course mere platitudes; but tanks are an execllent form of insurance against famine, while now that a system is being proposed of fluctuating assessments all round, whereby Government will take its revenue as a direct share of the produce of each harvest, Government itself becomes doubly interested from the current revenue point of view in seeing that the irrigated eropped area is increased and kept as high as possible. And it has here, in these fourthelass tanks, a means ready to hand wherewith not merely to increase the tank irrigated areas but to very effectively benefit well-irrigation both above and below the tank itself, as well as to prevent erosion of valuable soil caused by ill-regulated escapes of water which the tanks cannot now retain.
- The question of the maintenance of the fourth-class tanks must not, however, be looked at solely from the point of view of profit and loss of the Public Works Department. As Mr. Whiteway, the last Settlement Officer, wrote in para. 112 of his final Settlement Report on the subject of the management of tanks. "in the administration of the tanks the public works side of the subject must always be subordinated to the revenue side." I commend his whole paragraph 112, for perusal. I mean that the repairing of a now uscless fourth-elass should not depend on the question as to whether the outlay to be incurred in the repairing is, or is not, more than ten years' revenue in twenty. If by repairing its embankment or digging out its silt, and improving its approaches or cseapes, a fourth-elass Ajmer-Merwara tank can be made effective as a reservoir for water, the necessary repairs should be made. Possibly the cost might be more than the standard indicated above: but it is not sufficient to look solely at the mere amount of the increased revenue on the extra lands irrigated from the larger supply in the renovated tank. The effect of the latter on the wells also both above and below the embankment must be considered, also its effect in helping the people to build up their credit and material resources in good seasons, and so to tide themselves longer and with less destitution over a period of drought, with the consequent saving to Government of otherwise possible famine expenditure. Its effects may also be even more far-reaching than this in helping towards the preservation of good soil, and towards the growth of vegetation other than crops, e.g., trees with their effects on climate.
- 6. I think therefore that Government should take over all these fourth-class tanks, that a regular programme should be drawn up for working through each and all of them, at the rate of so many a year until all are in good order, and that the execution

of this programme should be taken in hand as soon as possible and carried through in the shortest number of years possible, and that thereafter these tanks should bekept in repair with the rest of the tanks in the districts.

7. While on this question of tank repairs, I beg leave to draw attention once more to para. 114 also of Mr. Whiteway's final Settlement Report. Much good work has been done during the now expiring Settlement in improving the tanks of Ajmer-Merwara, but while the repairing of existing tanks has by no means been neglected, the work done has been the more largely, I think, in the direction of building new tanks. There are still even now one or two more localities where new tanks could be built; but for practical purposes the possible sites for new tanks are now very few, if not the list has been practically exhausted. In the future, as Mr. Whiteway remarked then, twenty-two years ago, "it is in the direction of improving the existing means of irrigation that the future work of the Public Works Department must be. Much has been done already but much more remains to be done." There is no doubt that this statement of the case is as true now as then.

8. Many of the existing tanks, for instance, have in the course of decades largely silted up: this raising of the bed level allows less and less depth of water below the

escape and much valuable water goes to waste.

There are many old tanks in regard to which the villagers clamour for either the embankment or the sluice to be raised—but the cause of the evil has been in practically every case the silting up of the bed, and the remedy is to remove the silt. The villagers cannot, however, do this except under the direction of some responsible authority. Wherever, however, on other grounds, the raising of the embankment or sluice by a foot or yard or so would increase the capacity of the tank without detriment to other interests, the work should be carried out and the expenditure incured. The project should not be rejected merely because it is not apparent whether the increase of revenue would, or would not, repay the expenditure in some given period. New duets also are required here and there. In every way it must be the primary duty of the Revenue and the Public Works Department authorities alike to see that the tanks are kept in full efficiency year by year, and that where there are signs of wearing out—and the embankments of many tanks are now very old and several shows signs of wearing out—the parts affected should be replaced by new substantial work. The policy in this matter must be directed on broad general grounds, at any rate not be bound exclusively by considerations of whether the return for the expenditure will, or will not, be so much per cent.

W. J. E. LUPTON, C.S.,
SETTLEMENT OFFICER,
Ajmer-Merwara.

18th August 1908.

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# APPENDIX III.

Note on the present Variable System of Village Assessments in District Ajmer.

Mr. Whiteway, the last Settlement Officer, introduced a variable system at last Settlement into a portion of the Ajmer tahsil. That system has, however, been so consistently denounced ever since by local officers, and the unfavourable criticisms have been so invariably accompanied by a request for its abolition and replacement by a fixed assessment, that, as I am now myself persuaded that a variable system in some shape or form is still the best suited for Ajmer-Merwara, not merely for particular classes of soils but for all soils in a village, and thus find myself in direct conflict with a large body of past local opinion, it seems desirable to examine somewhat the objections that have been brought to the present system.

- 2. I do not propose, however, to go through all the detailed objections that have been arged from time to time against it. These are numerous, and not all of equal value: and they are all to be found in the files of the correspondence about Mr. Whiteway's variable system which has gone on during the expiring Settlement period. It will be sufficient, I think, to confine myself to the last most recent Note on the subject, viz., that which formed the enclosure of the letter No. 4-C., dated the 1st January 1907, from the Hon'ble the Officiating Chief Commissioner of Ajmer-Merwara, to the address of the Government of India. This Note scens to contain the chief more important objections: and these may, I think, be summed up correctly in the following statement, viz., that this system was intensely unpopular with the cultivators who were supposed to be benefited by it: and that it would still be unpopular no matter how it was modified: that the system has certain practical inconveniences, or disadvantages, both from the point of view of the cultivators and of the district officials; and that generally the system had proved a failure and was condemned by almost every officer without exception in Ajmer-Merwara who had had experience of its working, and condemned more particularly strongly by those officers who had revenue experience elsewhere.
- 3. Before proceeding further, however, I wish to say here that, though I agree very largely with these objections—in fact wholly, so far as they relate to the period prior to 1893—yet, with all due descrence, I can only entirely differ from the main conclusion which they seem to be intended to indicate, viz., that a variable system of village assesments has been proved by the last twenty years' experience in Ajmer to be unsuited to the tract.
- 4. The number of villages to which the system was originally applied was 61, and by 1893 this number had, as the result of applications from the villagers themselves, come down to 40, or, by 1894, in the same series of investigations, to 38.

And certainly the system, as it first started, had certain strongly-objectionable features: first and foremost of which was that the revenue had to be assessed by a rising and falling rate. This rate was, no doubt, limited in its variations by maximum and minimum limits, but there was still a standard demand to be worked up to as nearly as possible in good and bad years alike. This system was, in fact, open to all the objections which are now urged in this respect against the similar system on 2nd-class variable tanks (from which, indeed, this village variable system was copied), vide paragraphs 26 to 33 of my "Note upon existing methods of tank assessments," forming Appendix I. to the present Report.

- 5. I need not reiterate here the remarks there made. But this system is certainly one calculated after a few years' experience of it to arouse audible discontent in the minds of an ignorant indigent peasantry impervious to arguments of economic theories. There is, first, reason indeed to believe that under such a system the Ajmer peasants' actual position in a bad year of small cultivated areas, diminished supplies of produce, and of a rising revenue rate, might be very much less favourable than what it might be supposed to be on theoretical grounds. But in any case he would look with pained horror and a vivid sense of injustice only on a rate rising high in a bad year of restricted areas.
- 6. Secondly, even at ordinary times, the peasantry here live largely from hand to mouth and have to be financed by the Bunias. To such cultivators it is essential to know at the beginning of their agricultural operations what their liability is in the matter of the Land Revenue, so as to be able to make definite terms with their Bunia for necessary advances. The actual system of assessment might, however, at the end of the harvest upset completely all their calculations made at its beginning; and in the transactions between the Bunias and the cultivators it is easy to suppose that, if there was any loss to be incurred, this would go down into the cultivator's account and not be borne by the Bunias. This uncertainty of what the revenue might ultimately

work out to, affected also the cultivator's mortgaging credit on his holding. When the revenue per acre might be Rs. 3-12-0 or might be Rs. 5, lenders of money would take eare to keep on the right side of the account, and offer only such terms as might scem to the enltivator less favourable than he would get under a fixed assessment system. Being generally hard pressed, however, he would have no option but to accept those offered; but he would not love the variable system any the more.

- Thirdly, the procedure of working this original system was exceedingly cum-The series of calculations involved in working out the figure of the demand was at any rate usually beyond the comprehension of the ordinary cultivator. These calculations are, it is true, simple enough arithmetic when once the principle is grasped-but the Indian peasant is not a person who will try to understand anything if he has otherwise a prejudice against it. And here the cultivators' one and general feeling was only that in some way or other, and always, he was being 'done' (if I may be pardoned the expression) over his assessment by the patwari and revenue officials.
- The unpopularity with the villagers of the original system is thus easily intelligible. The reforms of 1893-1894, however, swept away for ever a great deal of the objectionable features: they removed the rising and falling rate and the dependence of the actual demand upon a standard demand: they fixed the assessing rate at one unchanging standard figure, and allowed the actual demand to be determined by actual conditions, so far as areas were concerned—a very great improvement, in that the cultivator could know now from the beginning of the season what his revenue would be, viz., so many times this fixed rate according to the area he cultivated. In fact, these modifications, in my opinion (which I now put forward not on the basis of theory only but from the standpoint of the actual experience of the later part of this expiring Settlement period, as explained later on in this Note) removed very nearly all, at least, of the cultivator's legitimate grievanees.

They still, however, left intact the emabrons procedure of working the system, the proportioning of one soil to another and the reduction of the cultivated area at each harvest to "dry units"—a process inevitable perhaps with a system based on a rate purporting to represent the revenue value of land in its dry aspect—but a somewhat tedions and involved process all the sume. The system also still has in itself

eertain other features which, I think, vitinte it. to which I will refer later.

Nevertheless, while as regards the actual method of calculations, the cultivator's attitude may still be the same, one of disapproval, I think that I may affirm not only that their old feelings of discontent and resentment against the variable system for village assessments have gradually since 1893-1894, died down, but that, on the other hand-mirabila dictu, perhaps-in their place there has grown up a feeling distinctly in favor of the principle of this variable system, which the villagers do not hesitate to openly express.

10. In the first place, it is significant that since 1894 there have been applications from three villages only for their conversion from variable to fixed assessment-

in 1896-and only one village was actually so converted.

Since than the villagers themselves of the remaining villages have censed to agitate for the abolition of this variable system, apparently, at any rate, for it is, of course, open to any that such applications have censed only because the villagers know that such were discouraged and would have no sneeess in obtaining sanction to the conversion asked for. But, so far as the villagers themselves are concerned, I consider that such a statement is merely a far-fetched supposition, not yet substantiated at least: on the other hand, it seems to me eminently more reasonable to presume that since 1893-1894, as the modified system got to work and experience accumulated of its results, the villagers have been finding out some, at any rate, of the benefits originally claimed for the variable system.

11. In fact, I think that there is no doubt that this latter presumption really

represents the truth of the matter.

Even as regard his own original, unmodified, system, Mr. Whiteway himself (para. 70 of his Final Report) remarked that "it is undoubted that like most novelties it is unpalatable. It will require the experience of several bad years before the whole benefits to themselves have been understood."

Mr. Whiteway's scheme started, I think, with heavy inherent handicaps. The modifications of 1893-1894, removed most or many of these; but "time, the truest schoolmaster" has since done the rest. The villagers have, in fact, learned to appreciate now the variable system. The general run of seasons since 1893-1894 has been bad or poor. At the present moment, at any rate, there is no feeling in these thirty-seven variable villages in favour of a return to a fixed assessment. I have talked much on the subject with the villagers in my inspections; it has been a stock question with me to ask whether the villagers would prefer a fixed or a fluetuating system, and I cannot recall a single instance of one of these thirty-seven villages now under variable

assessment wishing to change to a fixed assessment. On the other hand, several villages now under fixed assessment have asked to be pnt under the variable system.

The present Commissioner of Ajmer-Merwara, Lieutenant-Colonel C. H. Pritchard, can, I think, himself bear me out in the above statement to some extent. We interviewed together, at the end of the past cold weather villagers of the four villages of Narcli, Gudha, Goriawas and Barla, assembled together in the lastnamed village, and discussed with them systems of assessment. Three of these villages Nareli, Barla and Goriawas are already under the variable system, and these at this interview asked still to be kept under variable assessment for the future Settlement. Not only this, but the villagers of Gudha which at present has a fixed assessment, also asked for their village to be given a variable assessment. These declarations were, I think, as was remarked at the time, a remarkable testimony in favour of the principle, at any rate, of the present variable system.

It may further be remarked, as significant, that Goriawas was one of the villages which applied unsuccessfully in 1896 for conversion to a fixed assessment, while

Gudha prior to 1893 had been one of the original sixty-one variable villages.

The present variable assessment system on second-class tanks also apparently started with much the same prejudice. Thus, in the Annual District Administration Report for 1877-1878, in paragraph 9, the Commissioner wrote, with regard to the variable assessment scheme on tanks introduced by Mr. LaTouche: "The agricultural vicissitudes of the year have done much to teach the zamindars the nature of the variable assessment of water revenue of the larger tanks, devised by the late Settlement Officer, and whereas the system was, up to last *Kharif*, exceedingly unpopular, it is now generally accepted without demur. The details of its working are somewhat intricate, and it wanted the teaching of experience to explain these details

The people still have certain objections to this variable system of tank assessto the zamindars.' ment, as set forth in my Note, Appendix I. of this report; but I have not found in any case that they have any objection to the principle of fluctuation itself—on the contrary, none of them wish now to go back to fixed assessments on these tanks: it is only to certain features of the present procedure of working of the principle that they object. On these tanks, at any rate, a fluctuating system has become familiar, and approval has grown out of initial disapproval. The case is the same, I

think, with variable assessments on whole villages.

The actual system of village variable assessments at present in force can, I think, be still considerably improved upon and simplified: at any rate it has still eertain grave defeets which should be removed in order to make it satisfy more closely the present criterion aimed at, of proportioning the demand to the actual out-turn. ly the present criterion aimed at, of proportioning the demand to the actual out-turn. For instance, the present village variable system assesses on areas only, without regard to out-turn, except in the easo of unirrigated lands (rule 20 on page 521 of Volume H to L of the Ajmer Regulations): it exacts an irrigated rate from certain lands even though they may remain unirrigated (rules 18 (f) and (l) on page 520, idem): it still retains the blight of a "Standard Revenue," and has at times to remit a portion of this "Standard Revenue" (rule 14 on page 519), when the actual fact of any remission being necessary at all means that the portion remitted had never really, in the circumstances of the year, become due; lastly, its rule 21 prescribes a very awkward cumbrons method of working out the assessments, and the final result of it all is that the ultimate assessments may not after all be in very close final result of it all is that the ultimate assessments may not after all be in very close relation to the actual produce of the harvest.

I would not, therefore, advocate its retention for the future, or its extension to other villages in its present form. Nevertheless, in view of what has been said in other villages in its present form. In the control of the eriticisms stated in para. 2 for this note which have been levelled at this custom are always and the control of of this note which have been levelled at this system, are now no longer true. The modifications effected in it, though they may not have rendered it popular exactly, have yet at any rate secured the people's acquiescence in it as a system on proper

lines. And it certainly cannot be said to be a failure now.

15. And as regards the opinion of officers, I think that these might be accounted for in two ways at least. First, the variable system, as it was before 1893, certainly presented obviously objectionable points, which, drawing patent discontent from the people, led the officers of the time naturally enough to condemn the system as wholly bad. Since then, notwithstanding the reforms of 1893-1894, the unfortunate system has never been able to shake off the evil reputation earned by its unmodified form. Secondly, one can understand that any officer, even with revenue experience elsewhere or rather perhaps for this reason, coming to Ajmer unfamiliar with its revenue system, might well be repolled by the actual dry-unit method of calculating the village

assessments under this variable system and by certain other still persisting features.

Moreover, the system has never been popular with the subordinate revenue staff—no fluctuating system would be. This must naturally give the patwaris at any

rate much more work, if only in preparing bulky khataunis or abstracts of their Khasras, twice a year, than a simple fixed assessment. The patwaris' work also under a fixed system requires comparatively less supervision by the Girdawars and other staff,—there is naturally less trouble all round.

16. But whatever be the value of the surmises made in the first portion of the preceding paragraph, I beg with all due deference to differ from the view that the present variable village system has been wholly a failure, or even from the view that because this system has been a failure, any fluctuating system is unsuited to, and unnecessary for, Ajmer-Merwara. On the contrary, it seems to me that the present system has perhaps partially failed only because of certain factors not essentially bound up with the principle, and that a fluctuating system in really best suited to Ajmer-Merwara. And it is because I do thus differ so widely from the past local opinion that I have thought it necessary to put this note on record. On first joining Ajmer-Merwara I was myself inclined to think that the current variable village system has been an experiment which has not justified itself: but somewhat extended observation since and study of the system has convinced me that the view was not just. I must further remark that Munshi Imam-ud-din, the late Revenue Extra Assistant Commissioner, always maintained to me consistently that since 1893-1894, at any rate the villagers had now no real grievances against this system—and, after verification, I can now endorse that statement.

26th July 1908.

W. J. E. LUPTON, C.S.,
SETTLEMENT OFFICER,
Ajmer-Merwara.

Note.—I attach to this Note a translated copy of a very recent petition, from the villagers of Mauza Ramuer Dhani, asking for a fluctuating assessment.

5th August 1908.

W. J. E. LUPTON, C.S.,
SETTLEMENT OFFICER,
Ajmer-Merwara.

Translation of a petition, dated 8th July 1908, presented by the villagers of Ramner Dhani for converting their village assessment from the fixed to the variable system.

We, all the Khewatdars of Mauza Ramner Dhani, beg to represent that our village should be a variably assessed one, as there is very little water in the wells and many wells have dried up, the soil is bad and is brackish and will not even grow grass thereon. In the previous Settlement the assessment was high; this may either be reduced or the village be made katcha (variable). If it be again made pukka (fixed) we the Khewatdars will be utterly ruined. We therefore crave that our poverty may kindly be taken into merciful consideration and the assessment be reduced or the village be made katcha. A large amount of arrears of Land Revenue are due by us, we are in narrow circumstances, the produce of our village in very small; the records may kindly be perused.

5th August 1908.

W. J. E. LUPTON, C.S.,
SETTLEMENT OFFICER,
Ajmer-Merwara.

# APPENDIX IV.

Draft Assessment Rules (under Section 110 (a) of the Ajmer Land and Revenue Regulation 1877).

1. The Land Revenue of all lands in Ajmer-Merwara which are liable to pay Land Revenue—except in such villages as may be given an assessment made in some other manner—shall be assessed at each harvest in accordance with the following rules.

2. Rates according to classes of crops grown shall be fixed for each village.

The crops shall ordinarily he grouped into three classes.

The average circle rates, as fixed for each assessment circle of villages, and the present classes of crops, are shown in Schedule I. attached to those rules. But the actual rates for each individual village are those recorded in its Settlement assessment statement and in its Settlement volume.

# 3. In these rules :--

(i) "An assessable area" means an area sown with a crop which produces any out-turn;

(ii) A crop is said to be fully-matured when its actual out-turn per acre is not less than the "standard average yield" for that crop.

4. A "standard average yield" for each crop shall be fixed for each village at Scttlement.

The average "standard average yields" for each assessment circle are given in Schedule II. attached to these rules. But the actual "standard average yields" for each individual village are those recorded in its Settlement assessment statement and in its Settlement volume.

5. The crop-classes, the crop-rates and the standard average yields shall be fixed at Settlement, and no alteration in or addition to them shall be made during the currency of a Settlement except with the sanction of the Chief Commissioner.

# 6. The assessment shall be determined:-

- (i) First, by applying to the aggregate total of all the assessable areas of all crops belonging to each class of crops the appropriate crop-rate of that class; the sum thus obtained for each crop-class shall be the full possible assessment for that crop-class, and the full possible demand for the whole village shall be the sum total of these several full possible crop-class assessments.
- (ii) Then, this full possible demand shall be the actual demand for the harvest if the aggregate total of all the actual out-turns, as recorded in the Khasra, of all classes of crops for the village as a whole, is not less than the aggregate total of all the standard average out-turns for all the crops, obtained by multiplying the assessable area under each crop by its "standard average yield" and totalling up the figures of the total out-turns thus given.
- (iii) But if the aggregate total of all the actual out-turns of all classes of erops is less than the aggregate total of all the standard average out-turns for all the crops for the village as a whole, then the full possible assessment for each crop-class in which the aggregate total of all the actual out-turns is less than the aggregate total of all the standard average out-turns of all its crops, shall be reduced in the same proportion as the aggregate total of all the actual out-turns of the crop-classs is less than its aggregate total of all the standard average out-turns, and the actual demand for the village as a whole shall then be the sum of the several reduced and unreduced crop-class assessments.
- (iv) If the crop-areas of the village or of a crop class give an out-turn which is less than twenty-five per cent, of the out-turn which the areas would have produced had the crops been fully matured, these areas may, subject to any other rule applicable, not be assessed;
- [(iv) If the crop areas of the village or of any class-crop give an out-turn only which is not more than the amount of grain required for seed grain, these areas may, subject to any other rule applicable, not be assessed.]

Examples:—(1) A village shows the following figures for the harvest under assessment:—

Стор-с	dass.		Assessable area (Acres).	Aggregate total of the actual out-turns (Maunds).	Aggregate total of the standard average out-turns (Maunds).
Class I	•••		50	400	500
Class II	•••	•••	10	70	60
Class III	•••		100	320	225
	Total		160	790	785

The crop-class assessment rates are :-

For Cl	ass I	crops	•••		•••	Rs.	3	0	0	per	acre.
,, ,	, II	,,	•••	•••	•••		1	4	0	ņ	,,
,, ,	, III	<b>)</b> 1	•••				0	8	0	,,	"

The full possible crop-class assessments are then:-

		Acres.	Rate.			
Class I		50 ×	3 0 0 =	Rs.	150 0 0	
" li	•••	10 ×	1 4 0 =	,,	12 8 0	
" III	•••	100 ×	0 8 0 =	"	50 0 0	
	Total .	160	=	,,	212 8 0	, <del></del>

Here the aggregate total of all the actual out-turns of all classes of crops for the village as a whole, viz., 790 maunds, is not less than the aggregate total of all the standard average out-turns, viz., 785 maunds. The actual demand will therefore be the sum total of the three crop-class full possible assessments, viz., Rs. 212-8-0.

# (2) But suppose that the village showed the following figures for the harvest:—

Crop	class.		Assessable area (Aeres).	Aggegate total of the actual out-turns (Maunds).	Aggregate total of the standard average out-turns (Maunds).
Class I			50	400	500
Class II			10	70	60
Class III			100	200	225
	Total	•••	160	670	785

The crop-class assessment rates and the full possible crop-class assessments are as before. But here the aggregate total of all the actual out-turns recorded in the Khasra of all classes of crops in the whole village, viz., 670 maunds, is less than the aggregate total of the standard average out-turns for all the crops, viz., 785 maunds.

The actual demand, therefore, must be something less than the full possible

demands.

The crop-classes in which aggregate total of the actual out-turns is less than the aggregate total of the standard average out-turns are Class I. and Class III. The full possible assessment of each of these classes must therefore be reduced in the same proportion as the aggregate total of its actual out-turns is less than the aggregate total of its standard average yields.

For Class I, the proportion of the aggregate of the actual out-turns to the aggregate of the standard average yield is as 400 is to 500: that is, the aggregate of the actual out-turns for this class of crop is four-fifths only of the aggregate of the standard average yields. The actual assessment, therefore, on this crop-class will be four-fifths only of the full possible, that is, four-fifths  $\times$  (50  $\times$  Rs. 3) = Rs. 120.

For Class III., similarly, the actual assessment will be  $\frac{200}{325} \times (100 \times \text{annas } 8) =$ 

Rs. 44-8.

The actual demand for the village for the harvest will then be Rs. 177 only, made up as under:—

		C	Crop-Cla	iss.				Actual A	sscssmc	nt.
Class I	•••	•••	•••		•••	•••	•••	Rs. 120	A. 0	P. 0
" II	•••		•••	•••		•••	•••	12	8	0
" III	•••	•••	•••		•••			44	8	0
						Total		177	0	0

7. Distribution of the actual demand for the village over the cultivators' holding shall, ordinarily, be effected by (1) dividing the actual crop-class assessment by the total assessable area of the crop-classes, and (2) applying the incidences thus obtained as the actual assessing rates to the several crop-areas of the Khatas.

Thus, in the second example given to rule 6, the actual assessing rate for the areas of holding under Class I. of crops, to be used in the distribution, will be the incidence of fifty acres upon Rs. 120-0-0, viz., Rs. 2-6-6, and that for areas under Class III. of crop will be Rs.  $(\frac{14/8}{100}) = 7-2-0$ ; and for crop areas of Class II., Rs. 1-4-0.

But if the Khewatdars unanimously agree to any other method of distribution, the announced demand for the harvest shall be distributed according to the method so agreed upon.

But in any ease, deductions allowed for new or repaired wells or for "lift" arrigation from tanks shall be given only in respect of the areas entitled to them.

8. Lands growing any fodder-crop for cattle in the hot weather shall not be assessed.

Land growing lucerne grass with well-irrigation shall pay the first-class crop-rate once only in the year; and one bigha of lucerne grass under each well shall pay the rate of Class III. crops only.

- 9. Crops irrigated by lift from tanks shall be assessed at half the crop-rates otherwise applicable.
- 10. Crops grown by irrigation from new wells shall be assessed at the village rate of Class III. crops only, for a period of twenty years from the beginning of the first harvest in which the well began to irrigate.
- 11. If an old well is repaired and expenditure is incurred in its repairing, the crop-areas irrigated from the repaired well shall be assessed at the village rate for Class III. erops only, for such period beginning with the first harvest from which the repaired well began to irrigate, as the Settlement Officer, or thereafter the Collector, may determine—the period in question being fixed with reference to the length of time required for the difference between the rates of Class I. and Class III. of crops to recoup the expenditure incurred.
- 12. Immediately after the completion of the Girdawari of each harvest, a Khatauni shall be prepared for each village in the form shown in Schedule III. attached to these rules.
  - 13. (a) Columns 1 to 6 of this khatauni shall be filled up by the patwari direct from the Khasra.
    - (b) The patwari shall not enter any figures in anyof the other columns of this khatauni.
  - 14. (a) The Girdawar shall check the entries in columns 1 to 6, from the Khasras.
    - (b) The Girdawar shall fill up columns 7 to 10 inclusive of this khatauni.
- 15. Columns 7 to 10 inclusive shall be specially checked by the Cucle Inspecting Officer, who shall sign the khatauni in token of his check.

- 16. The Revenue Extra Assistant Commissioner shall cheek as many of the entries of the khatauni as he can, and satisfy himself that the entries are correct. He shall then work out the calculations of the assessment in column 11, and submit the khatauni to the Collector. The Revenue Extra Assistant Commissioner shall be responsible for the general correctness of this khatauni.
- 17. The Collector shall personally satisfy himself as to the correctness of the proposed assessments shown in the khataunis submitted under the preceding rule, and shall correct or amend such as may seem to him to need correction or amendment. He shall be responsible for the final assessments, and shall fix the final sum to be demanded, writing it in his own hand on each khatauni, and shall sign the khatauni. He shall then cause these demands to be announced, and to be collected in the usual way.
- 18. Other duties of the Patwaris, Girdawars, the Revenue Extra Assistant Commissioner, and the Collector in connection with the assessments are laid down in the separate general rules for the conduct and duties of the revenue staff.
- 19. An English Register No. I, in the form attached to these rules shall be kept up in the Collector's Office, separate pages being assigned to each village. In this Register the assessment of each harvest shall be recorded.
- 20. In the column of remarks of the above Register, a brief note of any remarkable event of the year affecting the revenue history of the village shall be recorded
- 21. The Lambardars' fees shall be at the rate of 5 per cent. on the amount actually collected by them. And the cesses in force from time to time—at present 3/2/- per cent.—shall be levied on the actual demand of each harvest.
- 22. At Settlement a normal standard demand for each harvest shall be calculated for each village, and the demand shall be entered in the Revenue Register (No. 1 of rule 19) at the head of the pages for each village, and shall be entered in the Annual Revenue Budget Statements for the district, as the amount likely to be collected for the ensuing year. But this is a nominal demand only in each ease, and shall not be taken as having any reference to the actual demand of any harvest, which shall be fixed in accordance with the actual areas and out-turns and crop-rates.

20th July 1908.

W. J. E. LUPTON, C.S.,

SETTLEMENT OFFICER,

Ajmer-Merwara.

# SCHEDULE I.—Showing the Average Crop-Rates (vide Rule 2).

	A	VER	AG	e Ci			res SSM)					e A	CRE	PE	R				
Crops.	A	mer.		Gan	gwa	na.	Pu	shks	ır.	Ra	jgar	h.	Ra	msa	r.	'Dis	strict.	R	enarks.
1		2	_		3	_		4			5			в			7	- -	8
· ·	Rs.	А.	P.	Rs.	A.	P.	Rs.	А.	P.	Rs.	А.	P.	Rs.	Α.	P.	Rs.	A. I	,	
CLASS I.—																			
(a) Comprising: Sugar-eane.  Melons  Lucerno  Redpepper									1										
Tobaceo Garden produce, fruits and roses																			
(b) Comprising: Vegetables, including Onions Spices, including Zira, Methi and Dhania, etc.																			
Lahsan Singhara Indigo Poppy Linseed	3	8	0	2	13	0	3	4	6	2	15	6	2	15	6	3	0	0	
Maize																			
Gujai Gulchani Rice																			
CLASS II.—			-							-			_			-		_	
Gram Bejhar Hemp																			
Mustard Carrots (and Jowar, Bajra and Til, when grown with irriga- tion)	1	5	0	1	0	0	1	4	0	1	2	9	1	6	€	1	4	0	
CLASS III.—										-								-	
Jowar Bajra																			
Mash and Urd Chanuala Marua Gwar Kulath	0	9	0	0	7	6	0	7	6	0	7	0	0	7	€	0	8	0	
Kangni Til (and other autumn crops grown in bara- ni soil without																			
irrigation)																<u>L</u>		$\perp$	

SCHEDULE II.—Showing the Average Circle Standard Average Yields of Crops (vide Rule 4).

		Kilarip.						E .	Rant.			
Crop.	Ajmer.	Gangwana.	Pushkar.	Rajgarh.	Ramsar.	Crop.	<b></b>	Ajmer.	Gangwana.	Pushkar.	Rajgarh.	Ramsar.
1	C1	۳	₩.	જ	ဗ	7		œ	6	10	ıı	ᄗ
Maize Cotton Jowar Bajra Til Mung Moth Kulath Urd and Mash Kangni Gwar Chanola Marua Carrots Vegetables Lucerne grass Lucerne grass Indigo Garden crops Rice Sugar-caue Tobacco Red popper			·			Wheat  Barley  Gujai  Gulchani  Gram  Bejlar  Zira  Nethi  Dhania  Vegetables  Garden crops  Lucerne grass  Melons  Tobacco  Roses  Poppy  Linseed  Linseed  Linsed  Linsed  Linsed  Linsed  Longan  Singhara  Mustard  Carret  Carret  Singhara  Wastard  Carret  Car					,	-
			-	_				~		*		

Kharif 13F.	
	Circle
	Маига
SCHEDULE NO. III.	Tahsil
	Form of Khatauni (Vide Rule.12.)

	AREAS.		Total Produce on		ASSESSABLE AT ORDI- NARY RATES.	essable at Ordi- nary Rates.	Standard average	Aggregate total of standard yields	Aggregate total   of standard yields pho village Rafes	Class I
Total Sown.	Nabud.	Bud, i.c.		cially assessed.	Area.	Produce.	yiclds per acre.	(column 7 multi- plied by column 9)		" III
<b>C7</b>	က	4	១	9	7	8	6	10	11	
				•						
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	····									
			•			,				

REGISTER No. 1.—(Fide Rule 19).

		TOTAL ASSESSMENT OF THE YEAR:-	Actual demand.	13								
		TOTAL ASBESSME:	Actual area assessed.	12						-	2	,
	Nominal Annual Budget Demand Rs		Remarks,	11								
Tahsil.	ual Budget D	vest.	Incidence of actual area assessed on actual demand.	10		<u> </u>				-	, , ,	
	ominal Ann	Spring Harvest.	Actual demand.	6		-	n com e-vierp kan upi upinaha depre		tion making magain upon can			
Girele	Ä		Actual aren assessed.	20					- Company			
			Crop Classes.	!					! !			
Mauza	Clars III. Crops—Rs		Remarks.	9								
	Clavs III. Cro	VEST.	Incidence of actual area assessed on actual demand.	ī					•			
Register of Assessments	ps Rs	Automn Harvest.	ا تشدد	<del>-</del> ‡	:							
Reg	Class II. CropsRs		Actual aren assessed.	3								
	THE VILLAGE RATES:	,	Crop Classes.	62	 HH 	Total	I II	Total	III III	Total	III	Total
	The Village Rates:-Class I. Grops—Rs		YEAR.	7	•							

#### APPENDIX V.

Note on the existing rules relating to Agricultural Improvement in Ajmer-Merwara, and their proposed exemption from Assessment.

1. In the matter of the assessment of new wells and improvements generally—paragraph 8 of the Government of India's present letter under reference—the rules in force in Ajmer-Merwara are to be found on pages 514 and 730 of Volume H to L of the Ajmer Regulations.

These rules have been left over for consideration by the Settlement Officer with reference to the Government of India's Resolution No. 6-193-2, dated the 24th May 1906, vide the Hon'ble the Chief Commissioner's letter No. \(\frac{170}{170}\) to the 3th December 1906, to the address of the Commissioner of Ajmer-Merwara—and I will

submit a detailed report in the matter separately.

But meanwhile, in compliance with paragraph 5 of the Hon'ble the Chief Commissioner's letter No. 15,315, dated the 5th July 1906, and with reference to para. 8 of the Resolution No. 6 of May 1906, above quoted, I submit the following enleulation for the talisil of Ajmer.

2. The average area irrigated per well in tabsil Ajmer is some 9 to 10 bighas, or 3½ to 4 acres. A good well will, of course, irrigate considerably more than this; I have seen some irrigating over 20 bighas: but, on the other hand, many wells irrigate much less than 9 or 10 bighas. And many wells irrigate much more in some years than in others. But as a fair all-round, year-in-year-out, average area, we may take the

above figures of four aercs as reasonably approximate.

Similarly, the annual average value per aere of irrigated crops, whether for the last sixteen years 1299 Fasli to 1314 Fasli or over the five years selected for the Net Assets Statement, has been Rs. 22 in some circles and Rs. 25 in others; the district average is Rs. 23. This includes both chahi and talabi soils. The value per acre of talabi soil (vida para. 18 of my Note in Appendix I), is a little under Rs. 23. The annual average value per acre of chahi soil also is approximately Rs. 25. Lastly, as regards the cost of wells in Ajmer, these cost varying amounts. But ordinarily the cost ranges from Rs. 200 to Rs. 500, and Rs. 300 per well may be taken as a fair average figure of cost. To be on the safe side, however, I take Rs. 350.

3. The annual average value, therefore, per well, i.e., for four acres, is four  $\times$  Rs. 25 = Rs. 100. The landlord's share of this at one-third (vide para. 128 of the report) is Rs. 33-5-0. If, however, no well had been constructed and these four acres remained "dry," the average annual value per acre (vide the figures in Appendix XV to this report) would be Rs. 5-2-0 roughly, if all the four acres matured, that is Rs. 20-0-8 for the four acres. The landlord's share of this one-fourth (vide paragraph 128 of this report), would be Rs. 5-2-0, and out of this, it being assumed that the rate per acre of dry soil were annas 12, he would pay Rs. 3, or with cesses at Rs. 3-2-0 per cent., say Rs. 3-1-0.

If now no increased assessment is put on the new well, the landlord's net profit due to the construction of the new well would be Rs. 33-5-0 minus Rs. 3-1-0=

Rs. 30-4-0, instead of Rs. 2-1-0 (i.e., Rs. 5-2-0 minus Rs. 3-1-0).

That is, his enhanced profit given by the well, over and above what profit he would get on the land as dry, is in a round figure Rs. 28 (i.e., Rs. 30-4-0 minus Rs. 2-1-0).

The present rule in force in Ajmer-Merwara now exempts such a well from assessment on the increased value created by it for a period of twenty years. The effect of this rule is that the landlord, after paying each year Rs. 3-1-0, as revenue plus eesses on the four acres, gets an enhanced profit of Rs. 28 per annum: that is, in the twenty years, a sum of Rs. 28-0 × 20=Rs. 560.

This sum suffices not only to recoup the cost of the well (Rs. 350) hut to give a further sum of Rs. 210 for repairs and for interest on the capital—that is, at the

rate of some seven per cent. per annum.

At any rate, the figure of Rs. 350 is, I consider, a full one: while that of Rs. 25, as average annual value per *chahi* acre, is, I think, moderate rather than full. These above terms, therefore, with a period of exemption of twenty years, seem at any rate sufficient.

4. Further, when the period of exemption expires, the position of the owner of this well is as follows:—

He has now to pay a revenue on these four acres at the well rate: which will be approximately Rs. 4 per acre: that is Rs. 16, or with eesses Rs. 16-8-0. His share of the produce is in value still Rs. 33-5-0, so that his net profit due to the well is now Rs. 16-13-0. If no well existed, and he paid revenue at dry rates only, his net profit would have been, as already shewn, Rs. 2-1-0. Even now, therefore, his net enhanced profit due to the well, over and above that on dry cultivation, is Rs. 16-13-0 minus Rs. 2-1-0 or Rs. 14-12-0, that is, in a round figure, Rs. 15 per annum, giving him still a return of 4 per cent. to 5 per cent. per annum on the original cost of his

well (already recouped) for as long as the well works; and of eourse, as part of his total not profit on the land under the well, he still receives the Rs. 2-1-0 on it in its dry aspect.

That is, under the present rule a landlord constructing a new well and letting it out on hire at one-third produce only, would in the twenty years' period of exemption, repay himself his capital, acquire a further sum almost equal to that capital, and at the expiration of the exemption period be left with the substantial possession of a free well, on the undepreciated value of which he will still continue to receive an annual sum equal to nearly five per cent. thereof, even after the payment of the revenue at wet, instead of dry rates, an appreciably substantial net profit in the eircumstancesin addition to the Rs. 2-1-0 which he still receives from the land under the well in its dry aspect.

5. In Ajmer-Merwara the well owner will practically always be the cultivator himself, and his profit from the well will certainly not be less than the above. So far as new wells go, therefore, the existing rule in Ajmer-Merwara seems not merely sufficient but liberal. At any rate the term of exemption does not, I think, require to be extended. On the contrary, it is rather a question whether this term is not too liberal and could not be reduced in justice to the revenue without hardship to the well owners.

In the Kohat District of the Punjab under the recent Settlement, the lands under new wells are, I believe, assessed at half the wet rates, and not at the dry rates: while in District Dehra Ismail Khan, they would, I understand, be assessed at threefourths of the usual wet rate, thus only one-fourth of the usual wet rates being remitted, apart from a remission of a small additional well-advantage-rate.

Calculating on the assumption of taking half the rates on the lands under new wells, we have as before the landlord's share of produce on the four acres as Rs. 33-5-0.

On this, at half rates, he would have to pay Rs. 8 or with eesses Rs. 8-4-0, leaving a net profit of Rs. 25-1. If the land were dry only, the landlord's net profit would be Rs. 2-1-0, as before. The net enhanced profit, therefore, due to the new well is thus Rs. 23. Rs. 23 × 20 gives Rs. 460 which restores the Rs. 350 capital and gives a sum of Rs. 110, i.e., roughly three per cent. to four per cent. for repairs and interest, while thereafter, when the twenty years has expired, even the assessment at the full wet-rates leaves again Rs. 15 per annum, equal to four per cent. to five per cent. on the undergointed original value of the real appart from the Rs. 2.1.0 on the land the undepreciated original value of the well, apart from the Rs. 2-1-0 on the land under the well in its dry aspect.

In the United Provinces, though a new well may, under the rules now in force there, receive exemption for 50 or 60 years—yet in strict intention the new well is exempt for the term of settlement only, i.e., thirty years; the allowance is made by making a deduction at the rate of ten per cent. of the estimated capital cost of the well from the assets of the assessment. That is, on Rs. 350, the deduction from the assessable assets would be Rs. 35, giving a reduction in the annual revenue, otherwise assessable, of Rs. 17-8-0, or usually a little more, as a full fifty per cent. of the assets is

often not taken. Rs. 17-8-0 per annum for thirty years is Rs. 525 in the total.

The assessing of the Ajmer-Merwara new wells, therefore, at half the wet rates instead of at the "dry" rates, would thus be only slightly less liberal prima-facie than the United Provinces system. And if my information stated in the preceding paragraph is correct, there would appear to be a precedent in the Punjab for the

assessment of new wells at rates above the mere dry rates.

But, as already indicated, such a new well in the United Provinces may, and usually would, receive a much greater exemption than that represented by Rs. 525: the total concession may, in fact, amount to nearly double that sum. Ajmer-Merwara is a poor tract, the seasons of which are subject continually to harassing agricultural vicissitudes.

Even greater liberality in such a tract would thus not be out of place. As a matter of fact, the sum for interest and repairs during the period of recoupment would be meagre with an assessment at half wet rates—and even with an assessment at the lower dry rates only, it is not really excessive—seven per cent. only. I do not recommend, therefore, any alteration in the existing rule as regards new wells, either in the way of taking more than dry rates, or, what is the same thing in effect, reducing the term of the exemption from assessment.

8. In the foregoing we have so far considered the case only of a new well which is constructed where none existed before, and by which "wet" cultivation has been created from what was purely "dry" before.

There is, however, the case where a new well is constructed which irrigates only

land which is already irrigated by another well and assessed at "wet" rates.

In such a case, the "increase in value derived" from this new well would no doubt be always difficult, perhaps impossible, to estimate in figures. But in any case one effect would be, doubtless, that the stability of the irrigation is assured, and perhaps preserved, as in many such eases it may be presumed that the new well was not built from caprice merely but was needed to prevent some "wet" area at least from relapsing into

"dry": while even if the latter supposition did not happen to be the case, it would no doubt be true that the additional well, by increasing the irrigation supply, would tend to increase the grain produce, this increased yield having its effect upon the amount of revenue demandable and generally upon the stability of the village in time of drought.

I think, therefore, that the same treatment may be given to such new wells as to

the former class. A liberal policy here also is desirable.

In the United Provinces, such new wells will, under the most recent circular, be apparently treated at settlement in the same way as those which convert "dry" to "wet" cultivation.

I propose that the same spirit be followed in Ajmer-Merwara, and that the lands irrigated from such new wells, even though these lands were "wet" before, be assessed in future at dry rates only for a total period of twenty years, or in the case of such wells now existing, for the remaining number of years necessary to make up the total of twenty years since the beginning of its irrigation.

9. There remain three other classes of wells which may be referred to here. One is the class of new wells built to replace old ones which have just gone, or are going, out of use from causes beyond the well-owner's control. Here again the area irrigated has also hitherto been "wet." But if the new wells were not built, the "wet" cultivation would certainly relapse into "dry." The replacing well here, therefore, is strictly a new well of exactly the same category as one creating wet cultivation, and there is no question as to its treatment. Its land should be assessed directly under the existing rules at dry rates for twenty years

The second is that of new "wells which have been constructed but have failed to work from causes beyond the constructor's control" (vide para. 9 of the Government

of India's Resolution No. 6-193-2, dated the 24th May 1906).

Here there is no question of any increase of value derived from such wells, and the existing Ajmer-Merwara Rules do not allow any possible revenue abatement. The argument, however, for granting some reduction of assessment in the case of these attempted wells is stated by the Resolution as follows:—

"Such a concession implies that Government to some extent shares the risk of

"Such a concession implies that Government to some extent shares the risk of failure of a well, but it will tend to encourage the sinking of wells without any undue loss of revenue," and the Government of India recommends "that other provinces should consider whether a similar concession should not be adopted in the rules

promulgated by them.'

The question is, however, a difficult one. There would be obvious difficulties in the working, at least, of rules intended to give effect to such a concession. Such a concession would be, of course, intended only for bond-fide attempts at making the improvement of a new well. But in many cases in practice it might be very difficult for the Assessing Officer, even with the evidence of the attempted well in front of him, to decide, even if some concession should be granted, to what extent or period it should be granted. Lenicncy in acknowledging claims to the concessions might easily lead to a number of attempted wells springing up and to a position arising in which, owing to these new, non-working, wells, considerable areas of the chahi lands were being assessed at dry, or appreciably reduced, rates even though these chahi lands were still being irrigated from previously existing old wells. On the other hand strictness might lead to the unduc rejection of claims, to the rules remaining a dead-letter, and to the cultivators being discouraged from sinking even genuine wells. This question, however, had better be left for discussion in connection with the general reference on the subject of the Improvement Rules (vide paragraph 1 of this Note). For the present I can only say that, in order to provide for any case of genuine hardship that may arise, in which a bona-fide attempt has been unsuccessfully made to make a new well on which a scrious amount of labour and money has been expended, I would at most be inclined to frame a permissive rule allowing the Settlement Officer on his own motion, and thereafter the Collector (after the latter has personally enquired and satisfied himself that the case is one deserving of concession, and subject to the specific sanction of the Commissioner or the Chief Commissioner) to make such concession on behalf of the constructor of the well as may seem reasonable in the circumstances, each case to be considered entirely on its own merits.

10. By the third class of wells (para. 9 of this note) I refer to old wells which have been repaired, the repairs involving expenditure. This matter is, of course, not covered by any existing rule in Ajmer-Merwara. But if the repairs prevent the well from falling in, or otherwise going out of use, there is at any rate an assurance of stability of the irrigation, and an additional protection against the effects of drought. And if in addition the repairs increase the supply capacity of the well, there is most probably a substantial increase also in the actual value of the village caused by the extended irrigation.

Well-repairing of this order may legitimately be admitted to the same consideration as actual well-construction. But as regards what concession should be made, the

subject is again one of some difficulty. At any rate a rigid period for an assessment at reduced rates can hardly be laid down. The extent and effects of the repairs, and the amount expended will differ in each case: I would propose, for the present at any rate, until orders are passed on the general reference, that where wells have recently have recently and the amount of the propositions of the control of been repaired, and the repairs have involved the cultivator in serious expenditure, other than petty sums which may be considered as ordinarily incidental to his yearly agricultural operations, and the well has been materially benefited thereby, some concession may be made in the rates on the well lands in question to such extent and for such period as may seem sufficient for the case in question. In most cases it will no doubt be sufficient to grant an assessment at dry rates, in place of wet rates on the whole, or portion of the chahi lands under the well, for a year or so, or for a few years, until the difference between the dry and wet rates recoups the well-owner for his expenditure.

With regard to improvements other than wells (I (b) of para. 109 of the report) the existing rules in Ajmer-Merwara refer, apart from reclamation of waste, to improvements consisting only of distributaries or water-courses (with which may be included masonry "odhs," or lifts, over water-courses from tanks or over natural nalas), and irrigation improvements other than such distributaries and new wells.

For "distributaries," they prescribe specifically an exemption from assessment on any increased value produced thereby for a term of five years, and, for other irriga-

tion improvements, exemption for a term of ten years.

There is, however, a concluding rule under which the Chief Commissioner may give

more liberal terms than the above in suitable cases.

This latter rule no doubt provides a useful means for mitigating possible hardship eaused where the nature of the improvement effected is such that a term of 5 or 10 years' exemption would not adequately recoup this initial capital expenditure. where a definite rule for the ordinary case exists side by side with an exceptional rule for a non-ordinary ease, the the latter rule is apt to fall out of use. Moreover, at present, at least, I doubt whether the terms of 5 and 10 years would be found to work in actual practice with fairness both to the villagers and the State. Past experience in Ajmer-Merwara furnishes no guide in this matter, as these rules came into existence since the last revision of assessment, and they have not yet been applied to any case.

Probably in the ease of most distributaries, a five-year period of exemption would be sufficient to recoup all expenditure incurred thereon. In many cases, on the other hand, where the construction involved merely a few days' earth digging and the area brought under irrigation was large, even five years would be too liberal, involving an

unnecessary sacrifice of revenue.

Other irrigation improvements in Ajmer-Merwara resolve themselves into (a) nadis, (b) ordinary field embankments other than nadis, and (c) "stream embankments" (vide section 3 (2) of the Irrigation Regulation 1887), which are confined

practically wholly to "rappats."

Now a nadi, newly constructed, may vary from a very small embankment, irrigating nothing or only one or two bighas in the Kharif and giving one field for gram or bejhar cultivation in the spring harvest, to what is virtually a small tank with a long substantial embankment. The cost of the one may be insignificant: of the other large. For the one the ten years' exemption prescribed may be unnecessarily liberal; for the other inadequately small. Again, the cost of a private "rappat" (which is nowadays a very rare form of improvement) might be comparatively quite small, while the "increased value" produced, though indirect mainly, is comparatively large.

12. My present opinion is, therefore, that no rigid periods for such improvements as these distributaries and nadis or "rappats" should be fixed by rule. Each individual case should be decided on its merits with reference to the actual expenditure ineurred and the increase of value created, a term of exemption from increased assessment being then fixed sufficiently long to recoup this original expenditure and to give, say, eight per cent. interest on the capital during the period of recoupment. procedure follows rule 4 of the United Provinces Rules, a copy of which is attached as

Appendix VI to this Report for ready reference.

13. The repairing of a private "rappat" swept away or damaged by a violent flood or other cause beyond the owner's control, I would propose to treat in the same way as a repaired well. But I do not propose that repairs of existing nadis and distributaries be brought within the scope of these rules. The analogy of the concessions contemplated thereunder for the repairing of wells does not really apply to these. A well is an expensive structure that may from time to time require considerable expenditure of labour and money to keep it in proper working order and to ensure its tapping the under-ground water supply. Distributaries and nadis, however—apart from such nadis with a masonry bund (which may wear out, and require, for effective repair, application of much lime, which is costly) as are really small village tanks, of the fourth class in the present classification, and will, I hope, now be taken over for maintenance by the Government-when once made, are capable ordinarily of being kept in order by trifling annual petty repairs which the cultivator does in the ordinary

course of his agricultural operations, and it may be assumed that, when once a term of exemption under the Improvement Rules has been granted for them when origi-

nally new, sufficient compensation has been made.

Nor are concessions required ordinarily for new field embankments. If anywhere these are of substantial cost, they can be treated as small nddis. But ordinary field-embankments are what the cultivator makes in the ordinary course of his operations, just as elsewhere he would make and maintain field-boundaries, and he would not naturally look for compensation on them.

14. The question of reelamation of waste (1 (e) of para. 109 of the Report) is not an important one in Ajmer-Merwara. There are here no areas of waste outside existing village limits likely to be reelaimed, and within village limits the question can only mean ordinary extensions of cultivation in the village waste lands, with which the ordinary system of assessment now proposed, with its erop-rates and proportionate automatic reductions of the revenue to the extent to which erop out-turn falls below the standard normal yields, will deal sufficiently adequately. But if a ease of real reelamation does arise, the existing rule, No. 1 on page 514 or 730 of the Ajmer Regulations, can be applied.

W. J. E. LUPTON, C.S.,

28th July 1908.

SETTLEMENT OFFICER,

Ajmer-Merwara.

# APPENDIX VI.

Rules for the temporary exemption from assessment to land revenue of improvements consisting of the reclamation of waste land or of irrigation works. \*(U.P., Board of Revenue's Circulars 5-1).

When land is reclaimed from waste with the aid of a loan granted under Act XIX of 1883, or by or at the cost of the proprictor, and is § 1. Exemption of land brought under cultivation, the increase in rental shall not be reclaimed from waste taken into account in fixing the land revenue to be paid during a period of fifteen years reckoned from the date of the commencement of the reclama-

tion operations.

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Provided that the provisions of this rule shall not apply to grants of land held on special terms from the Government, which shall be assessed in accordance with the terms of the grants, or to ordinary extensions of cultivation in the waste lands of villages, or, when the land has been reclaimed with the aid of a loan granted under Act XIX of 1883, to any case not within the provisions of section 11, sub-section (i), of the said Act.

In cases in which the exemption is due under this rule, the Settlement Officer shall determine the amount of the allowance made and the date from which the full assessment shall be payable, and shall declare the assessment to the proprietor.

- When any irrigation work is constructed with the aid of a loan granted ption of im. under Act XIX of 1883, or by or at the cost of the proprietor, and § 2 Exemption of imthe condition of the mahal is thereby materially improved, either provements by irrigathrough an enhancement of the rent already payable or through an increase in its stability and additional protection against the effects of drought, an estimate shall be framed of the expenditure incurred in constructing such work, and allowance made for the improvement by deducting ten per cent. of the estimate from the assets before the revenue is assessed at the revision of the assessment of land revenue next following the date when the work was constructed.
- 3. If an improvement other than those referred to in the preceding rules has been effected with the aid of a loan granted under Act XIX of 1883, §§ 3.5. Allowance the increase in value derived from such improvement must be made for other improvements. excluded from the assessment (Section 11, Act XIX of 1883).
- If an improvement other than those referred to in the preceding rules is effected by or at the cost of the proprietor otherwise than with the aid of a loan under Act XIX of 1883, and a permanent increase in the rental of such land or greater certainty in its realization is considered by a Settlement Officer to be wholly or partly due to such improvement, the Settlement Officer may, subject to the approval of the Board of Revenue, make such deduction from the assessable rental assets of the land benefited by such improvement and reduce the assessment upon it accordingly for such terms as may, in consideration of the expenditure incurred and the rental benefit derived from the improvement, appear to him reasonable.

The deduction so made shall not, on the one hand, exceed a fair return on the capital expended, or, on the other hand, the difference between the stable rental value of the land as improved and the average rental realized before the improvement was

If the reduction in the assessment will cease to have effect before the expiry of the term of the settlement which is being made, the Settlement Officer shall declare to the proprietor the amount of the reduction and the amount of the full assessment and the date from which the letter will become payable.

When during the currency of a settlement a new permanent well is constructed with the aid of a loan granted under Act XIX of 1883, or by or at the cost of the proprietors, and such new well replaces an old one in respect of which allowance was not made at settlement under rule 2, an estimate shall be made of the expenditure incurred in constructing the new well, and allowance for the improvement shall be made by a reduction in the revenue by an amount equal to five per cent. on the estimated expenditure.

Such reduction shall take effect from the commencement of the revenue year following that in which the new well was completed, and shall continue for the remainder of the term of settlement.

Each eo-sharer or group of co-sharers, paying revenue jointly, in whose favour such reduction is granted, shall be given an order in writing showing the revenue previously demanded from such co-sharer or group, the revenue after reduction, and the work of the improvement on account of which the reduction has been granted.

TRUE COPY.

W. J. E. LUPTON, C.S.,
SETTLEMENT OFFICER,
Ajmer-Merwara, Ajmer.

3rd August 1908.

(Appendi VII).

Statement showing the Rainfall of the Ajmer District.

Years	3.	Obs	ner erva- ry.	Har	mara.	Pisa	ngan.	Mas	suda.	Go	ela.	Ke	kri.	Bhi	inai.`	Sav	var.	То	tal.	District Average.
		Ins.	Cts.	Ins.	Cts.	Ins.	Cts.	Ins.	Cts.	Ins.	Cts.	lns.	Cts.	Ins.	Cts.	Ins.	Cts.	Ins.	Cts.	Ins. Cts.
1880	•••	18	54	9	50	15	10	18	30	9	50	14	60	12	20	18	20	115	94	
1881		21	30	15	50	14	50	15	10	15	80	20	15	17	15	15	25	134	75	•••
1882		27	24	23	70	25	80	31	60	27	50	25	35	20	80	28	40	210	39	
1883		17	40	12	•••	14	20	14	0	9	85	14	85	18	30	16	67	117	27	
1884		27	04	35	05	18	10	19	05	30	30	22	65	20	45	18	10	190	74	
1885		24	77	21	30	15	20	22	18	11	75	12	05	16	25	32	50	156	0	
1886	•••	15	34	18	70	11	83	18	23	17	50	11	75	19	20	29	80	142	35	
1887	•••	21	93	20	46	18	45	16	40	25	02	13	40	26	51	26	80	168	97	22.0
1888	• • •	24	42	16	03	12	41	21	05	28	97	14	0	17	04	26	25	160	17	18.7
1889	•	25	17	19	78	25	21	23	57	20	14	12	50	29	20	23	20	178	77	21.4
1890	•••	14	55	9	81	12	83	14	0	8	79	10	93 .	9	50	7	95	88	36	12.5
1891	•••	8	33	5	07	6	50	8	42	7	77	15	24	14	26	9	27	74	86	8.50
1892	•••	20	80	36	74	24	82	25	16	41	11	44	56	55	88	38	27	287	34	1
1892-93	•••	22	18	37	75	25	16	27	63	42	54	46	50	57	3	39	8	298	27	37.28
1893-94		31	22	31	32	24	71	22	68	22	10	19	57	21	97	26	57	200	14	25.20
1894-95	•••	26	61	24	55	23	47	18	38	25	75	20	39	31	0	32	52	202	67	25.33
1895-96		23	53	11	78	18	58	13	2	20	89	17	97	1+	43	16	24	136	44	17:05
1896-97	•••	26	64	17	53	19	34	21	13	17	28	26	38	21	69	34	19	184	18	23.02
1897-98	•••	23	26	27	20	20	43	22	8	20	33	21	61	13	90	18	66	167	47	20.93
1898-99	•••	12	69	11	6	14	18	13	56	11	95	17	0	13	26	18	73	112	43	14.05
1899-190	0	10	0	7	23	4.	30	9	94	9	61	7	45	9	49	8	89	66	91	8:36
1900-01		26	94	27	13	30	31	25	74	27	74	26	94	27	18	35	43	225	41	28.18
1901-02		11	90	10	73	15	68	δ	73	10	78	16	53	12	0	16	92	103	27	12:91
1902-03	•••	17	38	16	13	18	49	12		13	63	13	12	13	83	20	01	124	59	15.57
1903-04		19	17	17	16	20	13	15	98	24	59	28	29	25	25	28	69	179	26	22.41
1904-05		16	19	14	13	14	19	11	75	20	94	18	24	18	62	20	81	134	87	16 86
1905-06		7	47	2	93	8	60	4	63	6	64	7	82	8	19	8	9	54	37	6.79
1906-07		20	29	13	10	13	10	23	06	29	53	29	28	28	13	29	47	186	66	23:33
		1		İ										l						

APPENDIX VIII.

Milan Khasra for the 15 years 1300 Fasti to 1314 Easti (all included)-Tahsil Aimer.

				Ţ	39										
	Total	*aloesante	14	4,57,789	30,519	6,53,525	43,568	12,02,487	80,166	6,01,347	40,090	1,92,612	12,843	31,07,790	2,07,186
	Total	Tankariar	13	2,76,839	18,456	3,36,990	22,466	4,43,449	29,563	3,21,394	21,426	78,864	5,258	14,57,536	97,169
		Total.	12	2,11,861	14,124	2,86,455	19,097	3,24,211	21,614	2,47,118	16,474	64,218	4,282	11,33,863	75,591
•	<b>U</b> хівпилтір.	Barani.	11	1,91,827	12,988	2,73,078	18,205	3,01,133	20,076	2,28,678	15,245	52,193	3,480	10,49,909	69,994
		Abi.	10	17,031	1,136	13,377	892	23,078	1,538	18,440	1,229	12,025	802	83,954	5,597
ASSESSABLE (KHALSA ONLY.		Total.	6	61,978	4,332	50,535	3,369	1,19,238	7,949	74,276	4,952	14,646	976	3,23,673	21,578
	Indianares.	Talabi.	8	2,145	163	7,677	512	61,559	4,304	14,665	978	916	19	90,261	6,018
		Chahi.	1	62,533	4,169	12,858	2,867	51,679	3,645	59,611	3,974	13,731	915	2,33,412	15,560
		,IntoT'	9	1,80,950	12,063	3,16,535	21,102	7,59,038	50,603	2,79,953	18,664	1,13,778	7,585	16.50,254	1,10,017
	*MOI	lni wox	ī.	1,01,398	0,960	2,11,412	14,296	3,22,023	21,468	1,63,221	10,882	£1,142	3,143	8,51,226	56,749
տվեւ ինՕ			-	76,552	5,103	1,02,093	908'9	4,37,015	29,135	1,16,732	7,782	969'99	4,442	7,99,028	53,268
-,	-Aldseverats InZ		ಣ	3,85,558	25,704	1,12,808	27,521	5,18,878	34,592	3,25,656	21,710	1,07,028	7,135	17,49,928	1,16,662
	Fotal Area.		¢ι	8,43,317	56,223	10,66,333	71,089	17,21,365	1,14,758	9,27,003	61,800	2,99,670	19,978	48,57,718	3,23,848
	NAME OF CIRCLE.			Ajmer	Average	Gangwana	Average	Ramsur	Average	Rajgarh	Average	Pushkar	Average	Total District	Average

APPENDIX IX.

Milan Khasva for the 13 years 1300 to 1306 and 1308 to 1312 and 1314 Fasli, Tahsil Ajmer (1307 and 1313 Fasli omitted).

		•										•	
	Total assessable.		3,90,489	5,67,201 43,631	10,12,290 77,869	5,19,674 39,976	1,67,143 12,857	26,56,797 2,04,370	2,07,186	2,26,871	2,16,641	2,22,678	
	Total enltivated.		2,38,815	3,08,299	3,95,704	2,79,842	69,392 5,338	12,92,052	97,169	1,11,326	1,08,920	1,16,440	
		Total	1,80,385	2,61,676	2,86,925 22,071	2,15,003	56,883	10,00,872 76,991	75,591	86,024	82,002	86,290	
	Омпвиолтко.	Barani.	1,65,586	2,49,065	2,65,213	1,98,172	46,141	9,24,177	766 <b>'</b> 69	79,314	74,256	78,987 85,786	
	1	Abi.	14,799	12,611 970	21,712	16,831	10,742	76,695	5,597	6,710	7,746	7,303	
SA ONLY).		Total.	58,430 4,495	46,623	1,08,779	64,839	12,509	2,91,180	21,578	25,302	26,918	30,150	
ASSESSABLE (KHALSA ONLY).	IRRIGATED.	Talabi.	2,386	7,488	59,960	12,691 953	749 57	82,969	6,018	8,218	8,365	8,328	
ASSESSA		Chahi.	56,049	39,135 3,010	48,819	52,448	11,760	2,08,211	15,560	17,084	18,553	21,822 18,263	
	Laso E	7000	1,51,674	2,58,902 19,916	6,16,586	2,39,832 18,449	97,751	13,64,745	1,10,01,1	1,15,545	1,07,721	1,06,238	
	Now fellow	TOW INTO W.	86,917 6,685	1,75,327	2,50,463 19,267	1,40,863	39,043	6,92,613	56,749	57,761	18,018	36,539	
	Old fallow		64,757	83,575 6,429	3,66,123	98,969 7,613	58,708 4,516	6,72,132	53,268	57,781	89,703	669'69	
	Not assessable.		3,40,364	3,50,983	4,27,423	2,83,591	92,571	14,94,932	1,16,662	1,27,435	1,42,783	1,36,118	
	Total Area.		7,30,853	9,18,184 70,630	1,439,713	8,03,265	2,59,714 19,978	41,51,729	3,23,848	*3,54,306	*3,59,424	*3,58,796	
	NAME OF CIRCLE.		Ajmer Average	Gangwana Average	Ramsar Average	Rajgarh Average	Pushkar Average	Total District Average 13 years	Average of full 15	Average of five years (1304, 5, 8, 11, and 14 East	Mr. LaTouche's areas	Khasras 1885-1886 Assessed by Mr.	W hiteway.

\*Nore .- Includes Munfi and Bhum lands,

Аррендік Х.

Milan Khasva for five Selected years-1304, 1305, 1308, 1311 and 1314 F.

							V	SSESSABL	ASSESSABLE (KHALSA ONLY).	A ONLY).				
,		Ē	Uneultur-		CULTIVATED.					Соглічаль.	лр.			
NAME OF CIRCLE,	JIRGER,	Total Area.	able,		7.413	£		Irrigated.			Unirrigated.		Total	Total Assessablo.
				Aliawim.	oaciu.	Tongr	Chahi.	Talabi.	Total.	Abi.	Baranl.	Total.	Cultivated.	
A imon	Total	2,81,234	1,12,197	30,688	31,875	62,563	720,22	1,166	24,083	6,070	76,321	82,391	1,06,474	1,69,037
··· tamfy	Average	56,247	22,439	6,138	6,375	12,513	4,586	231	4,817	1,214	15,264	16,478	21,295	33,808
To itself	Total	3,12,185	1,10,997	38,099	51,948	90,047	. 20,386	6,042	26,428	7,136	77,577	84,713	1,11,141	2,01,188
··· mingfunt	Average	62,437	22,200	7,620	10,389	18,009	4,077	1,208	5,285	1,428	15,515	16,943	22,228	40,237
Concentions	Total	3,73,718	1,53,678	36,779	60,683	97,461	15,347	3,917	19,264	6,046	97,269	1,03,315	1,22,579	2,20,040
cangwana	Average	74,744	30,736	7,355	12,137	19,492	3,069	784	3,853	1,209	19,454	20,663	24,516	44,008
Tomat	Total	7,04,500	2,25,171	1,63,251	1,27,830	2,91,081	22,033	29,584	51,617	10,448	1,26,183	1,36,631	1,88,248	4,79,329
ramsar	Average	1,40,900	45,034	32,650	25,566	58,216	4,407	5,917	10,324	2,089	25,237	27,326	37,650	95,866
Destruction	Total	99,890	35,131	20,088	16,485	36,573	4,726	392	5,118	3,850	19,218	23,068	28,186	64,759
T USIDANT	Average	19,978	7,026	4,018	3,297	7,315	945	78	1,023	770	3,844	4,614	5,637	12,952
Water Diett	Total	17,71,527	6,37,174	2,88,905	2,88,820	5,77,725	85,419	41,091	1,26,510	33,550	3,96,568	4,30,118	5,56,628	11,34,353
Total Total	Average	3,54,306	1,27,435	57,781	57,764	1,15,545	17,084	8,218	26,302	6,710	79,314	86,024	1,11,326	2,26,871

APPENDIX XI.

Statement showing Well-inrigated Areas (Chahi) in District Aj.ner, extracled from the Khasrus.

	Cultivated area.	÷	:	;	÷	:	:	:	:	:	:	:	:	:	:	:	:	15,500
	Dolnali.	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	3,916
	0, 4024 101119	1 98	ŝ	5.08	1.39	<u></u>	1.73	2.73	26.9	9.	3 93	98-	8/.	4.43	6.63	7	2:38	2.38
.	Failed area.	٠ <u>.</u>	901	161	337	350	0;1	639	000'1	7.8	7.05	153	137	756	730	25	296'9	50
Toral Disricr	Alatured area.	13,373	21,655	23,075	:3,793	25,870	23,024	23,175	14,735	16,969	19,497	17,696	17,427	16,307	10,754	16,461	2,81,620	110,011
Tor	Total area sown.	14,074	158,12	23,561	21,130	26,199	25,164	23,825	15,831	17.017	20,292	17,819	17,364	17,033	11,304	16,528	2,02,587	19,506
	Percentage of failed area to sown area.	61.9	çş.	60-5	1:1	11,	5.00	5.17	09.9	16	3 06	ļ.	ŝ	2 80	7:00	68	2 61	2.61
Ramsar.	Eathed area.	503	<b>ç</b>	E	2	R	203	366	286	1-	191	<u>g</u> ]	ន	121	198	ត	1,966	131
RA	blatured area.	:,167	5,118	02,639	6,252	196,5	6,642	6,713	4,015	1,296	5,195	1,651	3,975	4,199	2,302	3, 166	73,264	1,584
	Lotal area uwos	3,376	5,164	5,813	6,322	7,623	6,845	7,079	4,331	4,303	5,359	4,713	3,995	4,320	2,500	3,190	75,230	5,013
	Percentage of failed area to some area.	88.	.17	1.31	2.15	1.61	1.71	2.80	8.17	62.	72.	1.15	1:37	5.13	5.16	.13	2.07	90.7
Валсави.	Failed area.	<u>.</u>	23	87	128	101	<u> </u>	191	332	8	37	51	89	220	130	9	1,619	101
μ.	Jatured area.	2,708	5,838	6,558	5,818	6,165	6,409	5,682	3,730	3,861	4,953	4,615	4,897	4,065	2,391	4,101	72,011	1,503
	Total area awas	2,732	5,916	6,445	5,916	6,266	6,521	5,713	500,₽	3,892	4,990	699′∱	4,965	4,285	2,521	4,107	73,560	4,901
	Percentage to failed area to some area.	3.75	3.22	90.5	5.03	<b>4</b>	1 94	Ę	1.87	.59	1.19	1 03	Ŧ	4.08	11.2	1.01	2.28	2.28
AR.	Failed area.	<del>%</del>	36	51	13		6	6	-18	9	16	51	-	59	ř.	14	300	56
PUSHKAR.	Matured area.	Gis Ciss	1,081	1,111	1,149	1,241	1,212	1,216	937	1,011	1,059	1,097	908	1,121	1,287	1,321	16,677	1,112
	Total area sown.	156	1,117	1,168	1,173	1,219	1,236	1,225	585	1.017	1,075	1,109	397	1,183	1,361	1,338	17,067	1,138
	Percentago of ot ot ot ot area to the ot	20.9	12.	iĝ.	95:	1.49	55.	1.51	7.01	86.	11.10	17	.83	5.20	18-6	64-	2:55	2.5.1
YANA.	Failed area.	176	75	20	27	5	55	67	53	တ	380	15	99	189	197	15	1,403	-6
GANGWANA	Matured area.	2,723	4,761	4,506	4,766	5,085	5,093	4,357	2,020	2,701	3,043	3,158	3,560	3,149	1,805	3,056	54,185	3,612
	Total area sown.	2,899	4,795	4,526	4,793	5,162	5,108	4,421	2,182	2086	3,423	3,173	3,590	3,631	2,002	3,071	55,688	3,706
	Percentage of failed area to assess any area.	6.52	1.13	3.44	1.49	1.97	1.49	88:	6-49	.25	3.63	1.19	-43	4.20	5.17	.19	2.37	2,38
.H.	Failed area.	257	13	186	88	13	98	47	277	96	198	20	18	167	151	00	1.689	113
Азмен	Matured area.	3,876	1,807	5,2-38	5,808	5,824	5,668	5,307	3,994	5,007	5.247	4.135	4.099	2.470	2.769	4.214	69.453	4.630
	Total area sown.	4,133	4,862	5,414	5,896	5.899	5,754	5,354	4.271	5,033	5.445	4.185	4.117	3.637	9.920	4.222	71.149	4.743
5 -	Year (Fasli),	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1319	1313	1314	Total	Average

N.B. Norn.-The figures in this Statement are approximate only owing to several of the village Khasras being missing or so damaged as to be now undecipherable.

APPENDIX XII.

Statement showing Praduce under each Class of Soil, District Ajmer, in 55 Villager,

	re Pro-	Matured area,	10.41	8.82	9.79	8.51	9.38	12.6 .	5 55	<b>\$6.8</b>	11.11	8-90	9.21	9-53	7.17	10.38	12.21	9.56	9.26
	Avenage Pro-	Sown aich	00.6	8.35	8.81	3.34	12-6	9.57	9 42	18.8	11-49	8.14	9.30	8 99	6.73	9.08	99.71	9.19	9-19
TOTAL		Produce.	63,005	75,085	88,199	83, 187	89,223	98,768	71,839	916,51	78,121	38,776	196,19	68,133	43,207	34,239	1,01,439	10,59,904	70,660
T	• ११०	sta berminkt	6,051	8,516	0,000	508,0	9,516	10,113	8,406	4,731	6,699	6,378	6,834	7,116	6,030	3,298	7,913	1,10,863	7,391
	ונהיוי	Total sann.	6,365	8,746	10,015	10,012	0,620	10,317	8,534	5,119	6,823	6,977	6,989	7,608	6,359	3,771	8,014	1,15,379	7,692
	r. Pr.o.	Matared Area.	1.87	6.13	6.95	555	6.03	:: ::	4:33	3.0	6.13	3.8	6 63	5.46	3.49	75.4	7.15	6.08	80.9
	Average Per-	Sown ares.	12.	6.32	16 0	93.1	2.80	5.15	<u>:</u>	5-25	50.5	\$ .52	6.12	4.9	8:3	3.73	1 P	2 62	29.9
ABE.		f,trqueo	10,932	10,500	11,529	8,310	7,156	7,529	019,0	3,596	0,381	00,030	9,850	7,912	3,071	2,301	13,252	1,18,203	7,850
	*2:	ore to contact.	1,400	159'1	\$59'1	1,561	1,233	1,403	1,279	209	1,159	1,063	1,495	1,448	188	233	1,779	19,432	1,296
	721.9*	nwes latoT	1,159	1,763	1,669	1,675	1,246	1,443	1,36.5	12	1,63,1	1,250	1,615	1,611	1,031	752	1,535	21,023	1,102
	5 1'to.	1-mutell .com	9:0	929	4.92	2,0	= &	9.11	9.19	9.33	10 32	9.63	8:58	8:30	0.57	2:36	11.13	9:35	9.33
	Avenue Pro	anna neos	5.6	Ĭ.	5.40	76	9 97	9:1	9.16	8:13	10 30	S -2.7	8.13	8-8	6:31	1.87	14.39	8.87	8.87
VI. VIII.		Preduce	11,135	11,703	16,156	15,377	19,547	10512	13,742	9,118	19,735	13,077	13,390	17,000	8,160	317	39,537	2,35,777	15,718
1	***************************************	na basusald	071.1	1,270	27.7	2000	2,116	2,616	1,923	1,620	1,507	1, 138	5. 5.	2,050	1,270	202	2,710	25,220	1,681
	,este	new Irloll	1,131,1	1,559	2,7813	1125	81.6	2,625	1,533	611,1	1,910	1,551	1,619	2,061	167,1	928	9,718	26,582	1,77.2
	. Pro-	hanteld data	11:10	0 10	92 05	9 93	101	10 69	:: ::	9:31	14.30	67.6	11-25	11:11	8-30	19:01	14-21	99 01	10 66
	Ayerack Pro-	rout unos	28 22	93 6	10-72	0 81	10-01	16-43	5.38	96.8	15-11	8.0	11.19	11 03	53.	11-27	14.18	10.11	10-41
CHAIII.		Preluce.	10,834	52,571	052.03	0.18'62	62,230	67,267	40,138	29,202	118'61	37,669	11,686	43,512	31,736	30,918	18,650	7,05,921	47,062
Ξ	*1:	Matured are	3,475	5,623	5,798	6,621	6,137	6,121	5,301	3,127	3,43,3	3,572	3,717	3,915	3,870	2,574	3,424	66,213	1,111
	ינריז	anos latoT	3,721	3,531	5,673	6,093	6,173	6,209	5,336	3,258	3, 162	4,116	3,725	3,933	4,027	2,713	3,131	67,70	4,518
	Y.C.	(Fach).	0001	1301	130-2	1303	1201	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	Total	Average

APPENDIX XIII.

Crop Price List for Ajmer District, in Rupees per Maund (Retail).

								•				Ď.	nero.	=	:	:		: :		:	:
Average price appli- ed to tho Produco Statement.	9.60	2.00	10.00	4.50	0.00	10 00	3.10	9.00	.T.	57.	5.00	3.00	00-08	100-00	100.00	20.00	00.81	10.00		50.00	30 00
<u>p.</u> 0)		:	:	:	-;	:	:	į	÷	:	:	: 62	:	:		:	kar	: :		:	÷
Свотв.	:	፥	:	:	፡	:	፥	:	:	ŧ	:	Miseculaneous	Garden produce	:	(a) Pushkar Circlo	Other Ciroles	cronn. 2r, Purhkar Jee	Other Circles	l'egetables.	(4) Ajmer Cirelo	r Ciroles
ъ	Kulath	Gwar	Indigo	Sarson	Dhania	Zim	Mothi	Marna	Gajar	Onions	Lahsan	Miscellaneous	Garden ]	Lucerne	(a) Push	(%) Othe	(a) Ajmer,	(b) Other	l'eg	(a) Ajmo	(b) Other
Average of the prices applied to Produce Statement.	<b>₹1.</b> 6	1.97	2.33	3.17	10-17	2.46	19.3	3.77	100	5.45	3.19	2.31	2:35	02-20	2.20	:	:	5-11	5.97	5.65	3.00
7 7 181 1000 07	2-29	2.18	#:67	3.33	9-13	2.11	2.70	3.15	10.0	09.9	4.85	3.48	3.93	3.20	3.81	6.23	3.83	2.00	15-9	5.75	3.00
1313 K. 1302-08	2.03	2.71	3.39	01.F	12.21	3.45	3.38	3.40	0.01	6.27	3.62	3.11	3.06	3.96	3.36	6.15	3.83	4.30	6.93	6.30	3.00
1313 E*	1.65	1-69	1.07	5.40	19:34	1.82	2 07	11.6	10.0	4.32	3.18	2.23	2.18	5.08	2:50	5.33	<u>16.</u>	16.1	99 9	81-9	3.00
1311 E' 1803-04	1:3 1:4	1:4:1	5.13	2:53	8.10	1.89	6.0	2.58	10.0	÷:33	2:76	1.83	10:5	1.81	2 0.5	1.83	92.5	2.00	99-9	7.07	3.00
1902-03	1.91	1.91	2.15	3-50	99.8	2.11	3.42	2.65	10.0	5.38	3.00	2.33	5 5 7	2.56	2.03	6.07	2.02	4.97	69-0	6.30	3.00
1309 E.	2.20	2:01	2.72	91.4	11-24	3.13	3.03	3.70	10 0	10.2	3-23	2:53	09.5	13:17	0S-5	7:27	2.83	2 00	09-0	0.20	3 <del>.</del> 8
1308 F.	2.13	61.6	6. 6. 7.	4.18	11.63	3.20	3.48	3-48	10.0	08.9	3-29	2.13	81.6	2.16	35.5	5.13	73.57 75.57	2.00	99-9	0.9	38
1899-1900	÷0.	4 08	4-63	5.13	10.31	96.7	5-33	3.83	10.0	0.46	4.18	3.51	3.81	3 -53	3.83	<u>-</u>	4.35	4:56	09.9	0.9	3.60
1898-99 T 3061	1-83	1.81	50.0	5.00	9:55	17-6	5.61	3.32	0:01	4-13	2.83	5.00	÷:	2.11	2.13	13-4-	4.71	20.0	99.9	0.9	3.00
1897-98 1305 F.	2.57	5.68	5.05 5.05	19.1	62-51	3.40	3.83	4:30	10.0	5.16	3.53	2.04	5:34	2.15	5.37	4:51	51.5	5.69	99-9	0.9	3.00
1890-97 1890-97	3:57	3.68	4.18	5:43	10-6	4.71	4:51	4.88	0.01	0+0	4.35	3.18	4.50	3.51	3.61	3.61	1.71	4.31	0.9	5.20	3.00
1303 B.	2:19	2.10	2.75	3.39	7:01	9.5	3.03	381	0.01	5.30	3.25	2.35	2:37	2. 2.	5.62	3.61	2.67	4.78	0:0	5.0	3.00
1894-95 1302 F.	1.37	1:51	1.98	2.16	9-28	1.03	2.11	3:01	0.01	5.47	3.63	09-1	1.54	1.55	1.87	3.0.	2.65	4-90	5.0	5.0	3.8
1893-94 1301 E	1:34	1:30	1.68	1.79	11:43	₹.	17.1	2.45	10.0	5.20	5.48	1.45		1.37	1.73	3.04	3.05	4.82	5.0	5.0	3.00
1300 E	2.03	1:81	2.17	25.52	10-00	5.3	5.50	2.33	0.01	5.81	2 98	1.58	1-60	1.56	1.97	3.01	3.02	4.35	4.20	50.	3.60
1891-92 1299 F.	5.60	2 49	2.87	3.58	8:33	3.03	3.01	3.5	10.0	5.20	3.27	- 3·30	÷;	5-30	2.60	3.01	3.05	5.55		5.0	3.00
1890-91 1298 F.	061	10.1	2:32	3.55	0-01	5.63	- 50	3.23	10.0	6.28	5.96	81.6	2:34	2.18	2:50	3.01	3.05	5.80	4.0	2.0	3.00
1889-90 F 7621	2 03	2 2.15	2.46	3.76	0   10.0	2 22	0.5	3.83	0-01	2.00	5.81	2.01	01.5	10.3	2:30	3.64	3.05	5 53	4.0	4.65	3.00
1888.89 1.296 F.	2.11	29.65	5.80	3.83	0.01	2.20	2 0	0; 	10.0	2.00	3.31	2:43	2.53	2.43	3.90	3.61	3.03	5 00	<u>.</u>	2 00	3.00
1887.88 T 295	5.00	1.99	5.25	3.00	10.00	5.20	3 0	3.58	10.0	1.81	3 55	2.07	26·1	5.07	2:30	3.04	3.03	5.00	0.7	5.50	3.00
	: 	:	:	:	:	:	÷	:	£	Ė	÷	:	:	٠:	:	:	:	:	and	::	:
Cuors.	:	: H	:		Red pepper	:	ola	:	036	:	: يە	:	:	:	i	.: ::	ni.	;	y seed	Cotton (Kapas)	ani
	Maize	Jowar	Bajra	Mung	Red I	Moth	Chanola	Urd	Tobacco	Til.	Wheat	Barley	Gram	Bejhar	Gujai	Linseed	Kangni	Riec	Poppy	Cotto	Gulehani

APPENDIX XIV.

Comparative Valuation's Statement of 1874 and of Average of 18 years ending 1314 Kusli (1906-1907).

			AREA UNDER CROPS IN 1873-74.	1873.74.	AVERAGE MATURED AREA 1889-90 TO 1906-07,	Marvised 39-90 to 07.	Produce	Avernge	Average Pro-	E Pro-	Алкрац улеци ок Риореси.	TOE.	Ауекабе Риск 1911—		% 01 ± 11 %	·+!81	Col. 15+10%
Скот.			Arca.	Percentage.	Perecn. tage.	Aica.	nssumed m 1873-74.	Produce 1889-90 10 106-07.	1873-71	1889.90 to 1906.07.	187:1.71.	1889-90 to 1906-07.	37.6781	.70 8081 .70 8081	value of Blusa and Straw.	18. year valuation valuation offer LaTo Prices of	for Blusa and Straw.
-			c.	.3	-	2	9	t-	တ	g.	10	=	17	E .	14	15	H6
Kriveře,																	
Rice	:	:	69	90.		99	276	327	3.5	4.95	1,262	1,680	1.57	5-14	1,848	1,197.68	1,647.66
Cotton	:		5,007	01.5	10.11	10,011	100.00	59,999	3.0	000	1,14,510	3,38,789	33		3,38,789	2,319,000,000	1,38,202,04
Jown	: ;	: :	26,161	3.42	00:10	19,671	55,163	16.215	9 6	36.5	1,11,32:1	91,137	3.5	1.6.1	1,00,251	79,027-65	50.0001
: :			15,168	10.89	11:11	10,400	30,4-0	20,700	S .	61	61,610	69,116	51	2:33	76,027	60,303-18	66,333-18
•			10,646	1.08	- S. S.	9 963	00,00	1,630	57.5	. i.	30c, 40 20c, 82	12,172	99	2.6	12,172	9,884 00	9,884.00
Mash	: :	: :	155	7.	18	(F)			1.20		581	171	50.00	3.77	177	117.50	117.50
:			3,33		:	: 0	8:		3.00	1:40	9 530	101.05	3.5%	10	49 464	33.058-48	3:1,058-48
Guar Guar	: :	: :	623	93.	· :	0:00:	51,0	2,032	90.	1,00,1	2,495	000	1.00	5.00	51	1.00	1.00
: :		: :	٠	Ş	: :	-	1	-	5:	9	· ·	77	24.00	3.00	0	80.00	00.08
:		:	707	95	ėj.	199	1,616	317	9:	35	3,535	820	88	99	828	00.759	00.7
Kulath	: :	ī :	1,385	15.0	् <sub></sub> हो ह	381	077.0	611	323	1,20	4,262	1,922	7.5	885	1,929	940-91	16-016
repper	:	:	2	100	sn s		711	1,503	) S	_!_	1,000	162,21		1 6	7 09 606	8 40 075.8E	8 77 540.85
Total Kharit	:	:	80,084	(2.13	17.70	61,360	2,42,143	2,33,013	co.s	200	0,1,10,6	1,00,00,1	07.9	0 666	060'00'1	00 010 05.0	200110
RABI.															,		
Vegetables	:	:	351	양	85.	532	::	12,283		93.09	10,620	21,280	30 per ac.	1.73	21,280	15,960 00	15,960.00
Sugar-cane and Satha Poppy and Tijara	: :	: :	69	99		8	25.50	38	375	6.0	1.015		20.7	5 0s	317	715 00	00.515
Lucerne	: :	:	0	Ģ		7.1	:	391		23-00	005	00,	100 per ac	333	1,700	1,790.60	00.00.1
Tobacco	: :	:	38	3.5 	: :	r:	998 300		18-00		180	OI T	000	98.	7	5.50	2:50
ıd Garden Produ	;	: :	170	70.	01.	161	087	1,566	00.00	17.51	1,120	279,7	00.+	4.04	7,273	7,280-00	7,280-00
Wheat	:		16.681	11.04	15.51	13.873	1.61.968	1,42,933	9.71	10:31	2,60,917	3,30,881	1.67	2 5 5	3,63,969	2,17,268-78	2,60,995-78
r and Gulchani	: :	: :	1,496	1:31	60.0	2,453	8,976	13,397	90.9	5.46	14,900	155,63	991	2-20	32,47.3	22,715-27	24,086-27
·	:		3	?	;;;		3,040	308	3	7.07 7.07 7.07 7.07	300,0	3,037	<u>.</u> :	06.6	3,087	3,090.60	3,090-00
Dhania	: :	: :	: :	: :	Ģ	က	: :	36	: :	7:50	:	210	:	90.9	919	216 00	216 00
:	:	:	:	:-	S &	8 K	:	÷ :	1-50	25.1	:	196	3.55		1961	143.19	143-19
Linseed	: <b>:</b>	: :	30	Ģ	:	:	33	:	16-1	:	136		3.38	:		002001	0.55.00
	:	:	8,150	27.7	6.97	6.319	20,375	22.533	5:50	3:51	15, 435		10 per ac.	2.35	53,164	39,311 82	39,311 82
Total Rabi	-	; ;	30.575	27.38	31.54	28,752	2,17,776	2,38,456	7.12	÷	4,09,840	5,82,083	1.88	2.44	6.30,740	4,81,294.71	4.66,993.71
Unsown	:	- :	553	GF.			:	:	:	:	:	:	:	:	:		200:10
neous	·	:	:	:	1.19	1,080	÷	7,139	:	;	:	21,417	:	<u></u>	21,417	00.717.12	00 /14,12
Grand Fotal	:	<del></del>	1,11,712	100.001	100.00	91,192	4,59,919	4,78,608	4.12	<del></del>		13,54,112	2.09	2.83	14,35,853	11,01,787-36	11,65,951.36
Sown area	:	<u>:</u>	1,11,712	100.00	100-00	1,09,475	4,59,919	4,78,608	4.13	4.38 for Blus	961,615 sa & Straw	13,54,112 81,741	200	2.83 14	:	:	:
Total	:	:	:	:	:	:	:	:	:	:		14,35,853	:	:	:	:	

APPENDIX XV. (A).

Congregative Statement showing Five years' Average Area and Assets, &c. (exclusive of 10 per cent. addition for Bhusa and Straw) for the whole tract, District Ajmer (1304, 1305, 1311, and 1314 Fasti).

Chor. Chor. O											Ī		36	11,016	100		2	-	
1 1	Cropped.	Matured.	Total produce.	Averago turn I m teur aros.	value of total	per cent for nemials.	Balance.	per cent. for prices.	Balance.	Crupped area	Jestured Area,	owner's Share.	tinoana S'ronwo Share es 10%=)	- <del>t</del>	Two. Three.	Cultivat	Inciden Col. 1 Col. L	Percent Iw of intak	агеа.
1	,01	3	4	10	9	7	8	. 6	10	=	12	13	14	15	16   17	18	01 13	20	21
		139-19	1,121.20	90.8	12,240 00	1,224	11,061	લ	8,812		63-31		2,937	1,469	10.5	-10		-	
	:	88 6	1.205.40	18.00	5,461.00	- c c c	916,4		3,933	:	41.32		, , , , ,	655:50		=	<u>:</u>		.08   Melons.
Lucerno Red nomer	: :	86.98	1.572.80	18 10	15,94:1 89	1,595	14,348	S,	11,480	: :	32.09		3.8.27	1914	22.0	: :	: :		
Tobacco	: :	23.95		19.81	4,458 00	416	4,012	.00	3,209	<u> </u>	133-99		1,070	535.50	22 36		-		.05 Tobacco.
Roses	 : :	61 E	15.00	6.30	192 00	67.3	6.0173	1.210	138	: :	58-12		97 19	£ 13	99.6	: : : : : : : : : : : : : : : : : : :	<i>;</i> :	-0-	Koses.
SHOOLIS	-			04.70	47 094.00	1.704	40 440	1	24 519	-¦-	20.00		1 600	25.0	9	947.58	18.55	+	
Total Class, I. A		١.		!	80 408,14	f. 1.7	43,140	0,000	210,40	<u>. [</u> :]	01.0		11.503	5, (52	2			1	
Class, I B Maize		13,264:95.1,	1,18,739-80	8.02	4.62.801.89	46.981	4,16,50	83.305	3,33,215	: :	28.56	•	68,019	31,007	31.4			27.01	S Cotton
Linseed			07. 87. 87.		132.30	13	119	24	9.5	:	7 08		32	16	-			5	_
Wheat.		3,731.98	35,380.40	87.0	1,30,073-43	13,000	1,17,064	23,413	93.651	:	01.570		31,216	15,607	+18	•	: —		Rorley
:		10,310.30 1,30,724 80	384.50		2.017.38	100 C	1.816	362	1,454	: :	28.81		1,18,002	270,20	4.10	1 6	-		
ige		240-71	2,134.40		6,403-20	1+9	5,762	1,151	1,608	:	19.14		1,536	7.69	3.19		-		
	:	85.53	243.60	6:38	5,436.00	513	4,893	978	3,916	:	50.03	ad	1,305	653	99. /		:	· 	
Veretables	::	320.78	6,574 80	20.40	13,953-60	1,394	12,560	2,512	10,018	: :	31.32	991	3,349	1,674	: io				20 Vegetables.
:	-			:			:	60,	: [	:	12:10			: 0	: 6	·	:		
·:	 :	435.39	2,265.80	07.0	5 504.00	792	7, 139	,1 000 000	3 361	:	27.96		1,90,433	99,200	 4:15		-		
::	<u> </u>		32,296 00	13.27	92,168-60	9,216	82,952	16,590	66, 162	: :	27.28	ajı	22,121	11,068	4.05	160		2.1S	
:					08:930	:	050	::	C85	:	55.63	IJ	100	113	: °	···	: 		. Onlong
Singhara	 : :	08.	3.60	00: #·	10.80	7	<u>.</u>	-	ဘ	: :	10.00		2 67	13.	1.68	1 20	-		-
m m	4	48,717.34473075-60	73075-60	9.731	9.73 15.02,643.17	1,50,264 1	13,52,379	2,70,4751	10.81,904	:	22.21	<u>(හ</u>	3 60.6351,	1,80,318	3.70	0 39,066.30	30 4 62		က္မ
& B	49,828 4	49,170-48,482945-40	82945.40	9.8211	9.8215,50,578.06	1	13,95,519	2,79,103	11.16,416	:	22.70	<u>· က</u>	3,72,138 1,86,070	96,070	3.78	8 39,413.88	88 4.72	72 44 04	
] ;		2,799.50	19,678-80	50.5	50,658-94	5,065	45.5.14	9,118	36,476	; 	13-03	<u>.                                    </u>	19,160	6.050	2 17		: 		2.51 Bejhar
Henn			13.40	÷ 5	40.50	+ 65°',	9	10°,01	68 68 68	: 3	5.36		÷ (; )	4.50			: :	-	
: :	-	152.96	339.80	5.70	1.529.10	15.		976	1,000		8:04		365	182.50	:		:		
Gajar Others	-	368.48	2,702.60	15 17 25 15 25 15 25 15	8,107-80	8 810	7,297	1,459	5,838	::	15.84		1.9.15	972	7.7. 	-	::		-33 Others.
	11,020 10	10,267.96	51,991.00	1	1,35,164.00	13,516	1,21,648	24,330	97,318	]:	9.48	<u>.                                      </u>	32,439	16,219	1.58	8 10,800.58	.58 1.50		02
Class, III, Jowar		23,910.93	60,497-60	1000	1,35,086-01	13,507	1,21,578	24,315	97,233	:	10.4	.31	21,313	12,157	iù į	- 0	: 	21.43	
: :	 ! !		2,161.20		7,693.73	7697	6,1,1,1	1,384	5,511	: :		190	1,385	691	- 1	12	: :		.82 Mung.
÷	 :	4,276 41	7,175.40		21,044-27	2,105	18,910	3,739	15,151	:	355	49	3,789	1,894	# 55		:		3.83   Moun. -04   Kangni.
Til			12,822.00		76,301-42	7,630	68,672	13,735	1,191	: :	6.83	d ə	13,735	0,869		13:	: :		
Gwar		206.07	770 20	00 c	1,510-42	12.	1,385	11.6	1,104	<del>-</del>	3.74	ΛIJ	111.69	138-55	· .	30	<u>:</u>		09 Chinoly
: :		_	30.80	8:30	09.39	<u>.</u>	2 13	€ 2	45	<u>-</u> : :	97.61		: :::	9.0	1.53		· ;	: 	
:		269-71 7-52	481 20 29 60	3.9	107-24	11	866 96	171 503	505	<u>-</u> ::	2:37 10:11	wen	175 20 20	88 00 00 00 00 00 00 00 00 00 00 00 00 0	1.50	 			
Total Class, III 6	63,002 5	52,209.86 133692.40	33692-40	2.563	3,68,899.79	36,890	3,32,010	66,402	2,65,608	:	5.09	T.	66.402	33,200	64	4 61,111-56	٠, ۱	54. 46.76	92!
Grand Total 1.2	23.85011	1.23.850111.648.30 668628.80	68628.80	5.99 2	5.99 20.54 641.85	2.05.464	4 18.49.177	3,69,83514 79,342	4 79.342	1 ::	13.25	<u> </u>	4.70,979,2,35,489	ι	2.11	1 1.113.26		2-11 100 00	0

APPENDIX XV. (B).

The second secon

Statement showing Average (Five years) Arm and Assels, &c., of Circle Ajmer. - District Ajmer.

ĺ	Cnor.		Sugar-cane.	Arcions. Lucerno.	Red pepper.	Tob teeo.	Roses, Gardens,		Maize.	Cotton.	Wheat.	Barley.	Rice.	Gurenani. Indigo.	Poppy.	/ egetables.	Methi.	Zira.	Gujai. Onjoira	Lahsan"	Singhara.			Bejhar.	Hemp.	Mustrrd.	Others.		Jowar.	Bajra. Mune.	Moth.	Kangni. Til.	Gwar.	Chanola.	Kulath.	ord.		
-ru	Intervental Intervet in borut	21	11.		_			1.00		5.75	0.03			<u></u>		11.	Ö		3.37	 	:	37.04	38.04	17.4				6.12	18.11	_	90.0				**	180	2.04100.00	-
10 6 fig	Incidence Col. 17 o	02	;	: :	:	:	: :	15-71	:	:	:	: :	:	: :	: :	:	: :	:	:	: :	:	66.5	5.26	: :	:	:	:	148	;	: :	:	: :	:	: :	;	19.	2:041	-
	Oultir rto arra.	19	:	:	: :	:	::	155.11	:	:	:	: :	:	: :	: :	:	: :	: :	:	: !	:	6,134,04	6,289.15	:	: :	:	: :	,382.20	:	: :	:	: :	:	: :	:	3.623 65	21,295	
No to	Three.	18	6.05	3 :	23-66	33.50	0 0 0 0 0	11.74	() () () ()	4.75	20.2	12	:: ::	3.67 2.07 2.07	:	90.9	7.51	1.83	81.9	4.76		3.97	4.19	2.5 5.5 7.5 7.5		7.07	507	1.61	<u>ခု</u>	ç	Se.	9	6	15°5	4.6			-
Inciprace ov Col., 14 or	Two. T	12	5.99	00.0			09.6	11.63	2-27	92 ¥	10.2	11.4	1 25		; ;	00.9	7.15	1.8.1	5-13	12.#	1.70	3.94	4.15	86-1	] - :	6.36	1 8 1	1.45	<u> </u>	7.	2.5	.65	7.	85	98.6	69.		- 1
	Not Net assets, T	16	218	2 5	_		720	2,437	1616	2000	007 6	13,40	1.20	99.00	:	972	40.16	38	2,701	32	<del></del>	30,629	33,066	327	:	<u>्</u>	33.5	2,041	2,352	1771	520	1.342	2	87-	· <u>o</u> ·	8.975		
03.01	Janomk [81:1547/0 244 Jun – )	15	136	2335	801	1,053	1.450	4,874	182,0	11,336	0.00	26,987	6	138		1,914	80.33	<u></u>	2,402	. 65	<u>.</u> 9.	61,257	66,131	654	:	₹ 3	67b	4,082	4,701	354	1,040	2,683	158	, c	1000	16.551	192,93	-
-uan-	o to stati Tail* A 19	=						<u>,                                     </u>	1		.11.	190	a	əđ	99.	aų:	J- Y	Jai	чт				}	1		_		}	]	<b>'</b> 11	192	ae	ođ	θV	y-£:	uo/	VT 	-
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VERAUE OF PFR	area.	21	15-99	36		二_	27.5	92.69	13.63	12.51	70.15	99.16	67.50	<u> </u>	:	36 00	13.63			18:97		23.67	24.88	11:89	:	38.49	3.5 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	89.8	10.5	5.95	37 F	2 23	32.5	77.0	25.5	4.71		-
	Halmes.	=	1,310	36		1,139	7,120	14,623	27,691	31,000	:	80.961	123	3 34	:	5,832				197	:•	183,771	198,394	1,960			2,073	12,246	18,815	1,416	4,161	10,73	635	<u> </u>	313	66.204	276.844	-
	Deduct 20 per cent. for pricos.	10	SGI:	3 6	99	<u>ģ</u>	1,0%	3.656	6,921	8,503	. 611	20,240	,	5 <del>5</del>	:	1,456	- 39 :	13	4,051	÷	:		49,599	1 950	:	35	507	3,062	4,703	35.	1,010	2.683	158	, o	12.	16.550	69.2112	-
	Lalance, 1	6	8,	121.5	3,341	3,915	5,400	18,279	319.18	12,512	16.031	100	7.	513		7,290	301	3	20,235	946	2)	229,714	247,993	2,450		318	2,535	15,308	23,519	1,770	5,201	13,415	č.	781	392	89.7	100	
beduet 10	per cent. for mentite.	8	185	og i	i.	<u>.</u>	000	2,031		.स.		11.245		Z 5.	:	810	:	24	2,250		:	25,524	27,555	272			282	1.701	១រិ ៖	ē.		-			7	0 105	•	ŀ
_	Arerage ralue of total area.	- 1	1,820 00	3,690 00	3,712.10	1,388.	.000.9	20,310-10	38,463.78	47,2:16-4	20,000	12,145.57	37.33	576.00	:	3,100.00 8,100.00	333.60	316.	22,505.81	271.80	24,	11.11/255238.64	75548-74	2,722.07		352.80	2,817 60	17,008 83	26,132-22	1.966 8:	5,778.70	2,146 75	8.8.00	207.02	436 00	91948-84	6-35 384506-41	
		:0	8.10	57.27	97.01	19.61	51.62			6.76	13:13	11:0:11	13.50	10 10 10 10 10 10 10 10 10 10 10 10 10 1	:	35.10	: <u>1</u> -	1:33	15 83	20.27	9 7	11.11	11.582	17.7	:	13.50	9	6.23	2.59	3.15	1.53				- C3 :		6:35	
AVERAGE OUT-	Cropped arra	1.2			19-50		7.1cm 25-69	28.70	17	0.70	- 1		18:30	10:	- :	57.18	17.67	7.G.1	15.67	20:06		9:1	11.47	6.67	:	11.88	5:11	471	5.30	: 61	1 26	1.55	2.57	1.0s	6.0	9:38	5.61	
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nev.	Matured	ဗ	36 01	12.57	18-81	60.00	SE-1:	207-51	2,011.58	1,143-51				18:81	:	160.38	::	20 75	492·45	6 73	র্	7,687.35	7,894-86	148.32	2	20.0	165-42	1,269.36	3,835 43			1.693 06	159.72	52.80	06 06		0.751.35	_
AVFRAGE AREA.	Cropped.	Ç1	36.40	49-20	00.61	23.60	2 S	209.60	2,032-20	1,205.60	06.933	3.583.50	07-	00.00	}	162 00	5.40	21 00	01.261	08 9	-50	ι	7,974.60	164.80		09.9	183.80	1,410.40	1.649.00	237.50	1,875 60	2,052.20	193.60	000-	09.601	- 1	150	-
	cnop.		ane	Melons	Ked pepper		Коѕеѕ	Total Class I. A	Ciass I. B Maize	Cotron	Linsced	Barley			l'oppy	Vegetables	Methi	Zita		Chrons	e	Total Class I. B	Total Classes I. A. & B	Class II Bejhar	Hemp	힏.	Others	Total Class II		Mung		Til Til	Gwar	Chanola	Kulath	111		-

		Cnor.	53	Sugar-eano,	Melone. Lucerno.	Red pepper. Tobarco	Roses Gardens.		Maire. Cotton.	Linscod. Wheat,	Barley. Rice.	Gulchaini. Indigo.	Poppy. Vegetables.	Dhania. Methi.	Zim. Gnjai	Unions. Labsan. Sisaburt.	0		10.33.04	Gram. Hemm	Mustard Curots. Others.		Jowar- Bajra.	Mung. Moth.	Nangm. Tri. Gwar	Chanwula. Marua.	Numeron. Urd.	
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ljmer.	40% 50.44	assots.	16	:	202	301	<del>- cı</del>	380	5,120	1,586	12,618	.: 173	111		318	;	100	90 408	i	ને એ	1:50	က်	3,531	169 168 1		3.S. 13.	:	8,003
District Ajmer.		Amonint of owner's share (Net assets.)	lã	:	101	_	: :	759	10,940	3.173	25,236	315	:	:	686 3, 155	18	2000	700 85	2 1 2	4,040	- 60 E	7.580	7,063	339	1,900	12 fg	:	16,007
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Gangi		DorutalC astured	13		61 61 61 61 61 61		55.00	71.46	16·31 24·96		23.08 17.09	16 74	26.19	5.08	24.82 25.94	30.34	00.00			107		•	3.80	3.97 3.07	5.34	6.51 6.53 7.17	[9:5 [3:5]	4 98
Circle Ganguana,	AVKRAUE OF PE	cropped area.	13	:	8.5 8.6	81 -53	55.00	70.74	16.14	32.74	22.83 16.87	16:57	25.04	2.00	25.58 55.68	30 00	99.				8.50 8.00 8.00 8.00	· •	3.13		4:33	4.5 6.5	2:I:2 ::	4 03
de., of		Balance.	=	:	305	1,803	::	2,278	30.718	9.521	75,888	1,034		er :	10,364	:		176 984		12,120	901	22,740	28,253	1,356 1,346	7,637	181	6l :	64,028
Assets,	. per-	Deduct 20 cent. fo prices.	10	:	<u> </u>	450	::"	569	7.6%	330	18,972 8	53 :	166	:-	476 9.591	:2	40 678			3,030	- 12 S P	5,685	7,063	339	1,909	<sup>+ ∞</sup> :	ິ : -	16,007
Arra and		Вайапсо	6	:	378	2,253	: :=	2,847	38,398	11.901	94,860	1,293	830	: *	2,383	:9	686 816	291 990	900	15,130	130	28,425	35,316	1,695 1,683	9,546		ea :	80,035
years) A	Deduct 10	per cent. for menfals.	8		SI 61			i	4,267		<u>,0</u>	‡			265 1,439	: x	796 76			1,5	-01 <u>#1</u> 5	3,1	3,924	-	1,06,1			8,893
snowing arerage (rue ;	Average	total area	7		18.00 19.00 10.00	2,503-32	16.00	3,163.32	42,664.79 61,842.45	13,929-79	105,399-96 37-29	14.37	921 60	4.20	2618° 14393°80	74.80	949 646 64	245,809 96	.6.267	10	15.30	31,	39,239.76 35,233-37	1,882-99	10,607.07	43.09 1.20	08-0s :- :-	88,928 45
1 41 ver	h our-	Natured soyn	9	ł '	17.40		2.0	12.41	9.45	13:17	13.29	93	19:49	5; 5;	13. <del>1</del> 5.	<u>eí</u> 01	10.50	10.53			15.52		2.53	2:31 1:4:9	1.32			2 65
nomi	AVFRAGA OU TURN PER.	Cropped area	5	t	10.13		5 00	12.29	9.36	_	13.16		19:30	3 00	3.41 12.98	20.78	10:42	10.43	٠ ١	2 ÷ ÷	. *S1 14.83	4.47	1.87			3.00		2.15
s mement s	Average total	modace.	+	:	15.30	255.60	1 00	395-80	17,804 00	3,730-60	43,698-60	479.00	494-00	1.50	5,238.40	37.40	82,179.20	82.575 00	00.076.9	7,074-80	3-16 192-80 50 00	13,600 80	16,898.40		.3,	99 99 99 99		34,145.80
Ä	ARFA.	Matured.	.3	:	4 16	χ <sub>6</sub> . Ισ ::	: :	31.88	1,883.57	287-89		۲. Io ::	25.35	: :	76 83 399•36	1.78	7.810.31		00.5:00	1,055.84	12:4-0:4-0:4-0:4-0:4-0:4-0:4-0:4-0:4-0:4-0	2.904.54	7,315.43	437.73	1,429-33	6 06 01.	7+.c	12,864·74
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	4013	- CEG:	1	A	Lucerne	Ked pepper Tobacco	Roses Gardens	Total Class I. A	Class I.B.—Maire Cotton	Unseed Wheat	Harley Rico	Indigo	roppy Vegetables	Methi	Zhra Gnjai Onere	Lahsan Singhara	Total Class I. A.	Total Class I.A. & B	II Beiliar	Gram San (Hemn)	Mustard Carrots Others	Total Class II	L	Mung Moth Kesseri	Tri Gwaf	Chanaula Marua Eulett	Urd	Total Class III.
				Class 1					Class									Tot	Class 11.—				Class III					

Appendix XV. (D). Statement showing Average (Five years') Area and Assets, &c., of Gircle Pushkur, District, Ajmen.

																							•					1	
	CROF.	61	ngar-cano.	Melons. Lacerno. Red pepper Tohaceo.	Roses. Gardens.		Maize.	Jotton. Linseed Wheat.	Barley. Rice. Gylehani	Indigo. Popov.	Vegetables.	Methi. Zira.	Gujai. Onions.	Lahsan. Singhara.	0		:	Bejher. Gram.					Mang. Moth.	_		Kulath. O Urd.	~ 7	5	
-viv	fotal bornt	   <sub>53</sub>	1.00.1		25 2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2.5 2.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3		20.00 20.00		<del>3</del> :			: :	35.00		٠	- 73 -	993	-21	<u>!</u>	9.05 5.05 5.05 5.05	90. 33.06		ço	07-		31 ( 00.00	
01 03	Col. 1	05		: : : :		15.05	<u> </u>	: : :	::	: :	: : :	: :	: : :	: :	3.97		- !	::	: ;	::	1.35	: :	::	: : :	:::	: :	15- 01	37 1-84	
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- Z		12	'	1,251 38 98 90 10 10 10 10	65		<u>!</u>			G1	116		- - - - -	• :	18		7,875	17.5	<u> </u>	61.4	439	10,0	089	89	<u> </u>	6.50	2,046	10,360	l
	Ualf Net appets.	16			::	-	1			:	: <del>-;.</del>	: : 	<del></del>	: : 	•	1	<u> </u>	   ¥:	<u> </u>	<sub>E</sub>	878	181	1,360	13(	==:	<del> </del> 원	4,093		
(4)	омнегь Балге (Хсельье	-		2,501 76 133	:: 118	2,834	1.37	250,2	6,930 30¢	<sup>च</sup> :	:	<b>:</b> :	22.0	::	: 1	12,916	15.750		ř.	-	8	128		:			4,6	20,	
lo	Junoari	Y	-			<u>_i</u> _	<u>ا</u>		nt.	193 4	od e	994u	[3-K]	aių.	T							<u> </u>				y-Kiu			
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Appendix XV. (E)

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1	Matured	33	15 77 8 57 20 06	2 17	46 69	2,854 5 2,106.91	512 14 3,105 51	82 34 14 17	45-31	13 00 13 00 607 54		9,704 62	9,751 31	384 70 1,111 23	111 17 27:05 74:11	2,208.31	3,967 92 2,670 26 216:64 684 26	2,119.29 69.62 36.17 1 32 88.28
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	CROP.		Class I. A —Sugar-cane Melous Luceino Rul pepper Tobacco	Roses Gardens	Total Class I. A	Class I. B.—Maize	Whent . Barley .	Ruce Gulchum Indigo	Poppy Vegetables	Dhama Meth Zna Zna Guiai	Omony Labsan Sughara	Total Class I B.	Total Classes I. A. & B	Class II.—Bejhar	Hemp Mustaid Carrots Others	Total Class II.	Class III.—Jourr Mupg Mupg Mupg	Kangani Tiji Gwar Chanoja Marun Kalath Uid

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	APPENDIX XV. (F.)	Five years) Area and Assets, de., o	
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crop.	Cropped.	red.	Average total produce.	Cropped area.	<del></del>	Average 1 value of potation of total area.	Deduct 10 per cent. 1 for mentals.	Balanco.	I)ednet 20 p cent. for prices	Balance.	Cropped area	Maturod	no to otad otale a'to	Amount of miner's share (Not 1480ts.)	Half Net assets.	Cots-	ا ا	Cultivated area.	Incldence Col. 14. Col. 14.	Percentage in Istot eara bourt	CROP.
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Class I.A.—Sugar-cano  Lucorno  Red pryper  Tobacco  Roses  Gardens	14.80 14.80 14.80 14.60 14.00 16.00	14:55 10:05	103.00 103.00 103.00 103.00 103.00 103.00 103.00	31.96 9.72 4.7.9 2.00 5.60	37:4 9:92 9:03 9:03 9:03 9:03 9:03	592. 1.080 5,875-29. 166-	584 584 7 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5,287 5,287 5,287 5,00 20 20	1,057 1,057 1,057 1,057 6	# 15 % 15 % 18 % 18 % 18 % 18 % 18 % 18 %	28.78 72-01 192-27 33-57 57-50 57-50	29-22 73-19 195-27 34-06 57-50 58-98		142 259 1,410 16	1000	12.04 32.03 7.71 7.30	12-23 52-53 5-80 7-70	::::::	11111		Sugar-cane. Melons. Lucerne. Red pepper. Tobacco. Roses.
Total Class I. A	49 80	49.05	1,146-20	23 02 2	23.37	7,677-22	768	6,909	1,382	5527	86-011	112-68		1,842	921	18.20	18.78	37.95	24.27	.12	
_ '=	6,377-20 6,168 00 10-40 10-40 5,630-00 5,630-00 7,630-00	6,075-48 10,24 2,328-34 5,545-55 75 00	59,240-60 41,874-20 19,250-00 60,750-80 60,750-80 60,750-80 750-80 76,20	6 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,39,369-89 2,48,155-73 71,503-83 1,56,004-0 1,208-74	13,937 13,937 17,151 15,600 12,800 12,800 12,800	221,340 71 64,353 140,404 255 1,087	25,086 41,668 11,871 28,081 51 51	1,00,347 1,78,672 57 51,482 1,12,323 1,12,323 8,70	20.97 21.78 21.78 21.78 36.43 36.43 11.42	20-26 20-26 20-26 11-59 1-59	r cent.	33,449 59,557 17,161 37,411 8,290	29,779 29,779 8,68 18,720 145	6 4 8 8 8 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24 85 85 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	::::::::	111111	15-70 -03 -03 -03 -01 -01 -01	Maize. Cotton. Linseed, Wheat, Barley. Rice, Galelani.
Poppy Vegetables	•		1,161.60		18:43 18:43	7,301.00		2,074	+115	1,650	25-92	26-32	ed es	553	976	4.31	 	::	::	97	Poppy. Vegetables.
		34.67	1,891-80 123-40 9,773-00 293-60	3.51 12.40 31.56	4.65 3.56 12.58	6,631-80 1,234-00 26,883-01		5,069 1,111 24,105 528	1,134 222 4,839 106		11.54 25.26 24.51 117.22	25-64 24-92 118-87	Гһігсу-сһге	1,592 296 6,452	796 3,226 70	1:92 4:09 4:09 19:44	1.95 4.27 4.15 10.72	: : : : :		9.6. 1.0. 1.0.	Dadna. Methi, Zira, Gujai Oniona, Lahsan.
Singhara Total Class J. A	21,94	21,613.86	194,841 60	1		8-40	65,4285	188	117,771	4,71,087	21-47	21.80	!	1,57,029	78,514	3.58			: 13	:. ::-01	singinara.
ë	21,992.80	21,662 91	195987-80	8 91	9.05	6,61,963.55	66,19	595,767	1,19,153	4,76,614	21.67	22-00	<u></u>	1,58,871	79,435	3.61	3.6716	16913.46	1-69	64-13	
- Bejlur Grum San (Ilcup) Mustat Carrots Others	1,116-40 2,701 00 1-40 1-00 1-00 1-00 1-22-20	2,444-41 1-27 1-27 0 1-27 0 1-27 0 1-27 0 1-15 0 0	7,61¢·00 10,891· 4.40 3 60 96 80 1,338·40	6.82 4.63 4.60 14-24 10.95	7.53 1-46 3-46 4-00 15-74 12-10	21,187.83 30,491.10 13.20 16.20 4,015-20	2,120 3,049 1,049 2,120 401	19,068 27,442 12 14 14 66 3,614	3,811 5,189 2,189 3 3	21,953 21,953 10 11 2,891	13-66 11-7-11 7-73 23-66	15-10 15-10 12-23 8-62 26-14	<u>'</u>	5,085 7,518 1,518 1,11 1,11 1,11	3,659 9,659 1,659	1.35	5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	1 1 1 1 1 1	::::::	2.52 6-12 	Bejhar. Grah. Hemp. Nustard Carrots.
Total Class II	3,948.80	3,573-67	19,944-20	5.05	5.58	55,796-19	5,580	50,216	10,043	40,173	10-17	11-24		13,391	6,695	1.69	1.883	3869-82	1.73	8-93	
rar 1a ng th th		1	1	2.43. 1.70 1.29 1.29	12.52   12.52   12.52   12.52   13.52   13.5	52,566-36 14,566-02 2,205-33 2,536-34	5,256 1,450 254 254	47,310 11,056 1,985 2,282	9,462 2,611 397 457	37,818 10,14: 1,588 1,822	25 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25.4.4.3. 3.00 %	er cent.	9,461 2,611 397 456	1,306 1,306 198 228	9+	: ± : 5	1111	:::::	21-63 6-06 6-08 1-30 6,88	Jowar. Bajra. Mung. Moth. Kangni. Trl.
frit Gwar Chansula Marna Kulath	3,23,4 7,4 7,4 7,4 8,6 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2	00 12.00 04-12.00 01-02.00 01-02.00 01-02.00	139-4-3 139-4-1 14-0( 142-8( 3-4( 3-4)	2 1 7 1 2 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9 - 1 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	22,78-10 278-80 51-57 18-50 285-60 14-52	2 2 3 3 4 5 5 6 6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8,55 151 151 151 151 151 151 151 151 151	ද ප්රිසසශීය ස	25,02 38 14 102 103 104	11-67 11-67 8-34 8-34	2-1-2 13-7-51 13-7-50 9-80	вису-йче р	<u>2</u> 0 → 20 m	G 60 8 -	<u> </u>	84888		:::::		Gwar. Chanaula. Marua. Kulath. Urd.
Total Class III	17,389-40	0 14,780-99	37,147-20	2:14	2.51 1,0	1,05,252-44	1	94,728	18,946	75,782	4-36	5-13	wľ	18,945	9,473	rý.	-64	1686772	95-	36.91	
Grand Total .	43.331.0	43.331.00 40.017.57[253079-20	253079-20	5.84	6.39	5.23,012.18	82.301	7.40.71	48.142	592.569	13.68	14-81	_	1.91,207	95,603	2-22	2.39	37.650	2.51	2.511100 001	

APPENDIX XVI.

Comparative Circle Statement for Five years average figures (exclusive of Bhusa and Straw), District Ajmer.

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	Cror.	Sugar-cane. Nelons Luceine Red pepper. Tobacco. Roses. Gardens.		Maizo Cotton. Linseed Wheat. Barley.	Rice. Gulchani. Indigo.	P.ppy. Vegetables	Dhunia. Methi. Zira. Gujaf.	Onions. Lahsan. Singhara			Bejhar. Gram. San(Hemp)	Sarson. Carrots Others.		Jowat, Bajra, Mung. Noth,	Kangani Til Guar.	Chinola. Marua. Kubith. Uld.		
Ker.	Incidence of matured area on h	30 55 7.39 12-15 22-02 22-02 97-66 97-68	. 12 69	25.56 1.75 1.19 4.18	4-79 '3-19 7-66	5-22	2-19 1-41 4-35	0-52 1-68	3.70	3.78	2:17 1:20 8:3	1.48	1.58	15 75 4 4 4	584	មិនិងទី	<del>\$9.</del>	2.11
TRICE An	Average outtuiper matured area	8.06 48.06 15.31 18.10 18.61 6.30 21.16	21.78	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	8.8: 6.38	50:49	5.20 3.67 13.27	38 G1 4 50	9.73	78.6 	7.03 4.07	2.76 17:21 17:33	1000	- 18 학원 - 18 학원 - 18 학원	88.58 21.58	1.45 1.78 1.78 1.78	2:36	5-00
Total District Ajner.	Average matured area.	139-19 88-75 28-81 86-91 23-95 2-38	453.14	13,264-95 11,668-95 13-11 3,731-98 16,310-30	50-46 210-77 85-23	320.78	435-39 149-85 2,433-11	03-51 08-	48,717.34	49,170.48	2,799·30 6,892 93 5-41	78-68 78-68 368-48	102,67.96	23,910 9; 11316-40 916-96 4,276-11	9, 24. 8,063·70 70·30 <u>6</u>	105:59 3:67 17:59 17:59	52,203.86	1,11,648·30
NO V.	Ramsar.	7.5.5.0 10.00 17.70	18 78	1914 5 5 W		4.38	: 657.5	19:72 1 67	3.63	3.67		81212 81212	1.88	्रित्र 	1.05	-0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5 -0.5	-84	2.39
ED ARB	-dargieA	4.85 112.15 19.71 2.56 5.56	12:70	2 + 1 + 6 2 + 1 + 6 3 + 1 + 6	888 674	.:- ::-	56 58 <del>2</del>	10:00	3.67	3.71	<u> </u>	0.5. 0.5. 0.5. 0.5.	1 47	15.55 F	: 22.9	ន់ដូវធ	:55	2.05
NCE OF MATURED HALF NET ASSETS	Poshkar.	21.51.0 10.03 15.51 15.51 15.60 15.6	15.03	167085 167085	7: 7: :	÷:	: : 28 : 28 : 38	: : :	3.40	3 50	<u> </u>	÷ 69 ÷ 10	F	1 44.85	1.63	ម្លដ់ម៉ូម	99.	1 91
NCE OF	.Sangwana.	12.02 13.69 13.69 10.00	11:93	27-2 4-16 5-51 8-55	12 G 31 71 :	:-	.:. 4.1.4 4.3.1	3.00	3.73	3.76	15 E E	. i. i.	1.3	+ HER	1.77	<u> </u>	.62	1.75
OUT-TURN PER MATURED INCIDENCE OF MATURED AREA ON AREA.  HALF NET ASSETS.	.rom[A	23.55.9 23.56.9 25.66.9 25.66.9	<u> -</u>	612 92 64 : 64	1 5 5 5 5 15 6 5	93 9	7.51 1.83 5.18	1.75	3.97	4.19	ຊ≘ ;;÷:	<u> </u>	1.61	5%56		7978	Į.	2.09
URED	Fannsar,	32:44 25:73 4:73 5:90 5:61	23.37	9-13 6-89 1-1-10-95	10.18 5.37 3.5 6.5	18:13	3.56 3.56 12.58	82.70 4.67	9 01	9.05	15 <del>1</del> 15 15 15 15 15 15 15 15 15 15 15 15 15	5 7 1 1 1 1 1 1 1 1	5.58	8 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	2.01 2.01		2.51	6.32
R MAT	Rajgarh.	46.94 12.16 16.81 2.00 2.00	25.42	583174 10668	8.14 13.78 4.91	22.63	15:44 15:44 15:06		9.22	9 62	3.73	1 7 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1	4.59		1.26		2:09	5.70
токи рі Авел.	Pushkar	8.04 10.00 14.00 12.57 11.92	9.20	12.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	건 당 당 다 당 : : : :	11:22	: : 6 6 6 6 6	: : :	9 45	9.45	÷ 81 %	6-17 21-36 11-37	5.32	42.53	2:0c 3:76	. 50 ct :: 61 ct :: 52 62 ct :: 52	2.72	5.38
	Gangwana	17.40 11.63 11.63 	12.41	9-45 5-82 13:17 13:29	-1: -1:-:	19:40	2:01 3:45 13:11	21:01	0.52	10-53	6.73	5.5.5.7 7.2.7.	4 68	# <del>- # 2</del>	1.32	9 # - : 12 15 # 12 15 #	2 66	562
Average	Ajmer.	8·10 35·27 35·03 19·46 19·61 7·17	20.98	7.56 6.76 12.13 13.61	18:50 10:53 17:17 17:18	9: 10	17:83 1:52 16:83	4-00	1	11.58	7.75	17.53 5.68 89.5	5.23		2:-2:-2:-2:-2:-2:-2:-2:-2:-2:-2:-2:-2:-2	# 12 # 15 # 12 # 15	2.88	6:35
	Ramsar.	14 53 10 63 10 63 1-38 1-38 40	49.05	6,281.51 6,075.48 10.24 2,328.34 5,545.55	5.52 75.06 6.11	63 04	407-39 31:67 776-77	3.55 60	21,613*86	21,662.91	1,010-31 2,414-11 1-27	06. 61.5 110.60	3,573.67	8,655-01 9,425-90 272 85	275077	E 20 20 20 20 20 20	14,780-99	40.017-57
AREA.	Rajgarlı.	15.76 8.47 20.69 20 .20	46 69	2,954-52 2,406 94 2-17 542-14 3,105-51	8:51 82:54 14:18	.45.31	22:06 13:00 607:31		9,704.62	9,751-31	581.79	11.7 12.03 11.11	2208:31	3,067-92 2,670 20 216-64 681-26	2,149-29	3647 1.32 88.28	9,884.49	21.844.11
Average Matured Area.	Pushkar.	103-15 4-16 -20 4-36 	118.01	233-14 208-50 1-00 112-07 1,121 08	31 15 2:58	02.93	 4.56 150.82		1,901 20	2,019-21	130.85 152.81 3.95	.94 12 03 71-11	312.08	137-11 1,618-12 4-17 1,251-00	41.55	2 50 1 50 5 35	3,092-51	5.423.80
AVERA	Gaugwana.	5 54 4·16 21·98 	31.88	1,883.57 1,783.59 287.89 3,287.79	61.78	25.33		1.78	7,810-31	7,842·19	925-20 1,935-84 -19	15.45 0.88	2,904.54	7,315-43 3,439-42 227-12 437-73	1,429-33	6:00 .16 8:12	12,864-74	23,6/1-47
	Ajmer.	36.04 48.71 5.35 18.81 22.37 1.08 74.25	207-51	2,01) 1,19; 46] 3,25(	.40 18-81 18-64		5.35 20.79 492.42	6.73	7,687.35	7,894.86		21.06 165.42	1,269·36	3,835.43 4,132.76 106.18 1,382.37	), <u> </u>	90.42 90.42	11,587-13	20.751-35
	   	e 5.	ند	:::::		. 00		:::	:	:	• •		ī				:	
	Chor.	Class I. A.—Sugar-cano Melons Lucerno Red pepger Tobacco Roses Gardens	Total Class I. A.	Class I.B.—Maizo Cotton Linseed Wheat	Rice Gulchani Indigo	roppy Vogetables	Methi Zira Gujai	Unions Lalisan Singhara	Total Class I. B	Total Class I. A. & B.	Class II.—Bejhar Gram San (Hemp)	Carrots Others	Total Class II.	Class III Jowar Bajra Mung	Anngani Til Guar	Chinola Marua Kulath Urd	Total Class III.	Grand Total

Агримом XVII.

solf!! , damel: out dineary o hotsrillingga	i bəllqqa	153	: : : :	31,091	: : : :	25,742	::::	7,272	: : : :	29,341	: : : :	58,358	::::	1,51,804
onnovofi ‡nom	litto& 32&A	42	23,583 659 1,606 7,623	32,870	13,096 2,537 2,172 10,620	28, 425	2,051 296 2,285 1,369	6,901	15,965 7,147 2,792 8,205	34,109	18,540 24,203 3,085 16,387	62,215	74,135 34,842 11,910 43,603	1,64,520
beesease tuom	Last Settle Lasts	23	5,172 166 1,226 16,000	22,564	3,549 815 1,438 21,223	27,025	631 96 977 3,565	5,319	4,258 1,839 1,903 17,827	25,827	4,603 6,237 2,014 27,171	40,025	18,263 9,153 7,558 85,786	1,20,760
flo2 tuamol	Inst Sott Rates	[2]	4:56 3 97 1:31	1:46	3.69 1.72 3.13 3.03	1.0.1	23.08 23.08 33.08	1-29	3.75 3.98 1.47 1.60	1.32	4.03 3.88 1.53 .61	1.55	4 06 3.81 1.58	1.36
lement rates contapplied to vo years aver- ated area,	750 PS + 7 3056940	21	25,085 1,102 1,906 8,090	36,183	13,596 2,932 2,183 11,672	30,338	4,923 289 2,164 1,768	9,141	18,346 5,629 2,513 8,633	35,021	21,286 27,513 3,844 18,423	71,126	83.236 37,325 12,615 48,486	1,81,862
soint intes interior	Has seal ag 02+	ន	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	1.75	4.43 3.74 1.81	1:36	3-70 2-81 -46	1.56	4.50 4.66 1.76 55	1.29	4.83 4.66 1.84 7.3	1.88	4.87 4.57 1.90 .61	1.63
Revenue.	Resultant	<u>e</u>	25,223 1,097 1,897 8,109	36,326	13,619 3,063 2,267 12,159	31,108	4,725 1,925 1,562	8,490	18,856 5,738 2,544 8,727	35,865	23,412 29,585 4,309 18,927	76,233	85,835 39,761 12,942 49,484	1,88,022
HATIS HI THE SED CROP ON CULTI- O AREAS RAGE OF	Rupocs, anna and pies.	13	2008 2008 2009	1110	3 14 0 10 0 10 0	9 + 2	0000 0000 0000	8 0	44-0 5550 0030	0 0	0000 121000 121000	907	0 2 4 5 0	1 11 0
SOLE MATES GIVEN BY THE FROUDSED CHOP BATES ON CULTI- VATED AREAS AS AVERAGE OF FIXE YEARS.	Pecimala	12	5:50 5:475 1:36 1:06 5:3	1.68	3.51 1.88 63	1.27	2 3 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1.50	4.63 1.78 5.63	1.61	5.31 5.00 2.06 .76	2 03	5.00 4.81 1.92 •62	1.68
ultivated area ro years,	e phototh double	16	4,596 231 1,214 15,264	21,295	3,069 784 1,209 19,151	21,316	945 770 3,844	5,637	4,077 1,208 1,428 15,515	93,928	4,407 5,917 2,089 25,237	37,650	17,084 8,218 6,710 79,314	1,11,326
Soils.		15	Chahi. Talabi. Abi. Rarani.	Total	Chahi. Talabi Abi. Barani.	Total	Chahi, Talabi, Abi. Barani.	Total	Chabi. Talabi. Abi. Barani.	Total.	Chahi. Talabi Abi. Barani.	Total.	Chahi. Talabi. Abi. Barani.	Total
EOIVEN OPUSH D ER OVER ENTELA-	Porcen. tage.	17	: : :	8-97		0.29	: : :	22.66	:::	5.14	: : :	22.58	: : :	13 95
[vinekseoiven ny profesi John Hersoven Last Skitla-	Amount,	12	:::	2,917	:::	2,642	:::	1,564	:::	1,753	:::	11,052	:::	22,938
etores to Z to c	1 Preentago	22	:::	41-58	:::	37.62	   ::::	40.85	:::	30.08	:::	30-88	:::	39-81
Novenue.	Inadiusofi	=	27,633 1,663 6,518	35,817	22,11.5 2,905 6,017	31,067	6,625 390 1,450	8,405	28,919 2,588 4,325	35,862	64,313 5,026 6,928	76,267	1,19,635 19,573 25,628	1,87,478
IVFRIGE CROP LATE PROPOSED IN—	linpees, annas and ples,	e.	013 000 000	1 11 6	13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ا ت	3 4 t 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 0	2 15 6 1 2 9 0 7 0	1 10 3	2 15 6 1 6 6 0 7 6	1 15 0	0.00	1 10 10
Ayfrig Rate pr 18-	Lecturals	6	0	1.73	2.82 1.00 1.7	1.33	3.25 7.25 7.4	1.56	2.97	1.04	2.97 1.41	1-95	3.04 1.22 1.82	1.68
,e of not assets,	40 Per cent	8	: ; :	34,706	:::	33,033	. : :	8,288	11:	35,882	: : :	76,483	   :·:	0,1,88,392
RAT APT	lines, and lines, and lines,	1~	4 3 0 1 9 9 0 11 6	2 1 6	3 12 0 1 5 0 0 10 0	1 12 0	702	1 11 6	3 11 6 1 7 6 0 9 0	2 1 6	3 10 6 1 11 0 0 10 3	2 6 0	3 12 6 1 9 3 0 10 3	2 2 0
CO PER CENT NPT 15SETS RAIRS ON 11 DOD AREAS "	Declinals.	9	4·19 1·61 7:1	5 03 15 03	3.76 1.31 .62	1.73	3.90 1.41 .66	1.91	3·71 1·47 55	205	3.67 1.88 -64	2 39	3.78	2.11
. of net assets.	20 per cent	19	33,066 2,011 8,275	13,382	29,498 3,790 8,003	165'17	7,875	10,360	36,196 3,254 5,403	44,853	79,435 6,695 9,473	95,603	1,86,070 16,219 33,200	2,35,480
·Bud" (crop- , flud" (crop-		 	7.895 1,269 11,587	20,751	7,842 2,905 12,865	23,012	2,019 312 3,083	5,424	9,751 2,208 9,885	21,844	21,663 3,574 14,781	40,018	40,170 10,268 52,211	1,11,649
ont area (the average).	Total Bor fred Ferra	e e	7,975 1,410 14,015	23,430	7,921 3,041 15,883	26,845	2,639 332 3,701	6,075	9,900 2,288 11,981	24,169	21,993 3,919 17,389	43,331	49,828 11,020 63,002	1,23,850
	Crop Class	ଟୀ .	THE	:		:	HHH	:	HH	   : 	THE	:		:
ኒቬ		1	:::	::	:::: ::::	:	:::	:	:::		: : :	:	istrict.	otal
Circle			Ajmer "	Total	Gangwana "	Total	Poshkar "	Total	Pajgath "	Total	Kavisar "	Tetal	Total Distriet.	Grand Total

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Appendix XVIII.

Statement showing the Average Matured Areas, Produce and assets &c., of Jagir Villages, District Ajmer for the past 12 years.

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Ceor.	Matured Aroa.	Gross Producc.	Vulno of Gross Produco.	Veduct 5 % for Menials.	Balanco.	Deluot 20% (excess of Bazaar prices).	Balanec.	Owner's share (4 of Col. 8) = Net assets.	½ Net assets.	Incidence of Col. 2 on Col. :0=\frac{1}{2} Not assots Rates.	Averago cultivated area.	Incidence of 4 Met assets on cultivated area.
1	2	3	4	5	6	7	8	9	10	11	12	13
Class I.—Lucernc Gardens Sugar-cane. Red pepper Vegetables.	13 19 77 26 173	547 380 1,057 335 4,373	1,250 1,513 5,408 3,082 6,910	62 76 270 154 346	1,188 1,437 5,138 2,928 6,564	238 287 1,028 585 1,313	950 1,150 4,110 2,343 5,251	317 383 1,370 781 1,750	191 685 390	8.90 15.00		
Total Class 1	308	6,692	18,163	908	17,255	3,45!	13,804	4,601	2,300	7.47	279	8.24
Class II.—Barley Wheat Gujai Poppy Dhania Zira Maize Cotton Rice Tobacco	5,352 601 355 17 3 49 2,734 3,079 25	60,102 5,336 3,782 95 19 153 21,244 19,809 179	1,53,094 18,410 16,380 632 117 1,532 49,737 1,19,558 916	920 819 31 6 77 2,487	1,45,439 17,490 15,561 601 111 1,455 47,250 1,13,580 870	3,498 3,112 120 22 291 9,450 22,716	12,449 481 89 1,164 37,800	4,664 4,150 160·33 30 388 12,600 30,288	2,075 80·16 15 194 6,300 15,144	3.88 5.85 4.72 5.00 3.96 2.30 4.92 4.64	•••	
Total Class II	12,215.17	1,10,719:33	3,60,879	18,019	3,42,360	68,472	2,73,888	91,296	45,648	3.74	11,125	4.10
Total Classes I & II	12,523 17	1,17.411.33	3,78,542	18.927	3,59,615	71,923	2,87,692	95,897	47,948	3.88	11,404	4.20
Class III.—Mustard Gram Bejhar Gulchani Others	2 1,917 715 45 231	6,970 3,940 311	18,830 9,437 932	940 472 47	17,890 8,965 885	3,578 1,793 177	7,172	2,391 230	1,196 118	1·24 1·67 2·62		
Total Class III	2,910	13,282	85,386	1,769	33,617	6,723	26,894	8,965	.4,488	1.54	3,055	1.47
Class IV—Jowar  Bajra Til  Mung Moth  Kulath Chanola & Urd	4,953 4,938 1,111 226 1,873 102	13,529 1,791 399 3,010 146	32,639 10,058 1,256 7,454	1,632 503 63 373 15	31,007 9,555 1,193 7,081 277	6,202 1,911 239 1,416	24,805 7,644 954 5,665 222	8,268 2,548 318 1,888 74	4,134 1,274 159 944 37	·84 1·15 ·70 ·50 ·36		•••
Total Class IV	13,343	29,448	74,931	3,747	71.184	14,237	56,947	18,982	9,49	71	19,939	-48
Grand Total	28,776 17			<u> </u>	·	-	8,71,583		-			
		1,60,181·33								2.15	34,398	1

Note. -No account has been taken in this statement of Bhusa and Straw.

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PROPOSED.

APPENDIX XIX.

	Amount.	Total monthly amount.	Total yearly amount.	Rечапкз.	Panticulars.	Amount.	Total monthly amount.	Total yearly aniount.	<b>Вемари</b> я.
	C1	က	4	5	1	<b>c</b> 1	3	4	ũ
I. (a) Revenue Extra Assistant Com- missioner 250-30-400 REVENUE EXTRA ASSTR. COMR.'S. STAFF.	Rs. 400	Rs. 	Rs.			Rs. 400 250	Rs	Rs	Rs. 1 Render @ 30 1 Chailt @ 30
	30 30 15	: : : :	: : : :		I. Kevenue Extra Asstt. Comr. spare.   *Ajmer	87 57	767	9,528	Ahlmud @ Peons @ 6
: :::	12 1,485 608 401	497	5,964		(1) Inspector @ Rs. 75 (1) Do @ " 60 Horse allowance @ " 20 (1) Peons @ " 6	75 09 45		2,388	Total Rs. £7  * Rs.  Rs. 1 Reader @ 30 1 Ahlund @ 15 9 Peors @ 12
1 45 55 55 55 55 55 55 55 55 55 55 55 55	40 50 70	::::	::::		(b) (2) Registrars @ Rs. 40 (1) Registrar @ ,, 30 (10) Girdawars @ ,, 35 (2) (2)	80 300 70	::::	::::	Total @
(3) Do. (6, "30 (3) Do. (6, "25 (b) Peons for the anove.—	75	::	::		(4) Moharrir for Registrar Girdawars @ Rs. 15 15 Peons for the ubove @ Rs. 6	09	630	7,560	
ເລຸ່	18 50 75	473	5,676			40		÷65.	
: : : :	2	06	1,080		(1) Teacher @ Rs. 30 (2) Mirdahas@ " 6	30	43	102	
lotal	:	3,00,5	42,648		Toral			51,604	
					Transito				13.4

| Increases. | Rs. 
		анТ [ золл	11	$\begin{array}{c} \text{Rs. A. P.} \\ \text{S} \\ \text{O} \\ \text$	355 of 280.0.0 = 86 9 0	0 6 98			9 × 0.8.0 = 4 S	(11; of 4.8.0 = 2.14; 0	2 14 0	89 7 6	6 Rabi 1307 F.	$0 \begin{array}{cccccccccccccccccccccccccccccccccccc$	105	1 51 2 0			**************************************		1 51 3 0	Total for year 1307 F. 140-9-0
Kharif 1307 Fasli.	Col. 7 multiplied by Col. 9 (Normal	yields in the actu assessable areas)	10	Mps. 238 345		595	:	:	10	: ;	66	617	376	;	10	. 361	:			:	361	:
Kha	Standard	per aere.	G	3 20 6 30		   		:	00	::	     	:	11 20		10 0	:				:		s by lift.
—(A). Circle Rajgarh,	ASSESABLE AT Ordinary Rates.	Produce.	8	64 110	01 ::	184	:	   	ខត្ត	::	14	198	120	မ	:	170			:	;	170	from Tank
XX—( $A$ ).	ASSE-18/ Ordinar	Area.	7	85 19	:	80	:	:	73 4	::	6	68	12.	>	1	18	:		;	:	31	b) Irrigated
Appendix X	Remarks as to areas	to be specially assessed.	9		:		Nil.			:::							Nil.		71:N	•		Irrigated from new wells, (t) Irrigated from Tanks by lift.
1jmer,	Total produce on	Bud areas in Maunds.	ī	110	01 ::	184	]     :	     : ,	6161	: :	14	198	120		:	170	::		:	:	170	
Tahsil dymer,		Bud.	7	28 51	:	80	:	     	10 T	::	6	89	9 2	3 pm/	-	31	:		:	:	31	with their
	AREAS.	Nabud.		29 29	:	59	:	:	35 S7	13	158	217	:	: :	:	67	     		;	:	62	d the areas
		Sown.	61	57 90	<b>-</b>	139		:	40	7.5	167	306	57.5	o ⊷ c	` ,⊷	33	:	] ] 	]     :	:	33	il be entere
		CROP.	1	CLASS I.—Maize	Red pepper Lucerno	Total Class I	Class II	Total Class II	Chass III.—Juar	Til Kulath, Moth	and Mung. Total Class III	. Total Village		Viujai Wheat	Onions	TOTAL CLASS I	CLASS II	Total Class II	CLASS III	Total Class III	Total Village	Norg. —In column 6 shall be entered the areas with their produce—(a)

Norr .- In column 6 shall be entered the areas with their produce-(a) Irrigated from new wells, (b) Irrigated from Tanks by lift.

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $							-		15	7									
Table 1   Appendix	-	Vit.	anT Labal		Rs. A. = 213 8	œ		***************************************	. = 69. 8	20	٥	Rabi 1308 F. = 252 0	0	= 204 0	0				E.
Table 1	rif 1308 F.	Col. 7 multiplied by Col. 9 (Normal	yields in the actual assessable areas),	10		1	Nil.	:		ļ	1	1	;	ļ		:	:	1	•
Table   Tab	Khæ	Standard	per acre.	0	i	:	:	:	}	       	]     ;	!	     :   	l .	       :	Nil	:	:	by lift.
Total Line   L	). Rajgarh,	1	_	æ	155 188 4	347	:.	:	421 59 17 1 45	543	890	33 12 636 184	865	228 465 2	695	:	÷	1,560	om Tanks
Tabsil Ajmer,   Hauza Ansari,   Hall Amada,   Hall Amada	CX - (B)	ASSESSA ORDINAR	Area.	7	31 29 1	61	:	:	97 17 9 1	139	200	es es 45 es	73	35 100 1	136	:	;	208	irrigated fr
Charles II	XI	Remarks as to areas	to be specially assessed.	0	: : :		Nil.									Núl.			igated from new wells, (b)
Chars I. — Maire   Sown. Nabud. Bud.   Bud.   Bud.   Cotton   Co	er,	Total produce on	Bud areas in Maunds.	5	155 188 4	347	:	       	421 59 17 17 45	543	068	33 13 636 184	865	228 465	695	:	:	1,560	roduco – (a) irī
Chass I.—Maize   Sown, Nabud,   Sown, Rabud,   So	hsil Ajm		Bud.	4	31 29 1	61	:	:	97 17 9 1	139	200	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	72	35 100 1	136	:	:	208	rith thoir p
Chor. Sown.  1 2  CLASS I.—Maize  Total Class I  CLASS II.—Bajra  Thoral Class II  CLASS III.—Bajra  Thoral Class III  Thoral Class III  Thoral Class III  Thoral Class III  Thoral Class I  CLASS II.—Bejhur  Thoral Class I  CLASS II.—Bejhur  Total Class II  CLASS III  CLASS III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III	$T_{a}$	Annas.	Nabud.	m	:::	:	:	:		:	:	: : : :	:	: : :	:	:	:		the areas
CLASS I,—Maize Cotton Red pepper Total Class I  CLASS II.—Bajra Juar Mung Clanola Total Class II  Total Class III  Total Class III  Total Class II  Total Class I  Class II.—Bejhur Barley Gulchani  Total Class II  Class II.—Bejhur Grum Carrots Total Class II  Total Class II  Class III  Total Class II  Class III  Total Class III  Total Class III  Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III  Total Class III			Sown.	2	: : :	:	:	:		:		   : : : : 	:	: : :	:	:	:		be entered
Chor.  CLASS I.—Maize Cotton Red pepp Total Class I CLASS II.—Bajta Juar Mung Chanola Til Total Class III Total Class III Total Class I CLASS II.—Bejhur Grum Caulchani Total Class I CLASS III.—Bejhur Grum Caulchani Total Class II CLASS III.—Bejhur Grum Caurots Total Class III Total Class III Total Class III Total Class III					: :: 10	÷	:	:	: : : : :	:	:		. :	: : :	:	:	:	:	ı 6 shal
			OROF.	To the state of th		Total Class I		Total Class II	Cr.Ass III.—Bajra Juar Mung Chanola Til	Toral Class III	Тотал Уплаяв	CLASS I.—Gujai Wheat Barley Gulchani	Total Class I	CLASS IIBejhar Gram Carrots	Total Class II		Total Class III	Toran Vidlage	Note: - In column

Norn-In column 6 shall be entered the areas with their produce-(a) irrigated from new wells, (b) irrigated from Tanks by lift.

	Kharif 1313 Fasli.	Class	The Track II. 1:8:0	11	Rs. a. p.	$14 \times 3.8.0 = 49.0  \hat{0}$ $10^{3.5}$ of $49.0.0 = 11.8.0$	11.8-0						11.8.0	Rabi 1313 Fasli.	18 × 3.8.0 = 63.0.0	181 of 63-0-0 = 51-5-0	24-5-0	19 × 1.8.0 = 28.8.0	6 pt of 28.8-0 = 19-15.0
	Kharif	Col. 7 multiplied by Col. 9 (Normal	yields in the actual assessable areas).	01.	Mds.	13	107	:					107	23	io C	င်း	210	33. 4.1	10
	•	Standard	normal yloids per aere.	6	Mds. Srs. 8 20	12 0	:		:	       			:	11 20 13 0	10 0		:	30 7	
	—(U). Circle Rajgarh,	Assessable at Ordinary Rates.	Produce.	8	12	တ ၊ အ	25	:	:	Nil.		:	25	36 132	တ <del>-</del> -	- 1	181	39 15	2 II
<u> </u>	$\Delta - (C)$ Oircle		Area.	7	<del>-1</del> (		14	   : 	:	   		:	14	63 65	<b></b> ,	1	18	13	T
	Arrendix AA—(C). dnari, Circle	Ren	'	9	•			****								•	•	: :	
	Mauza Anari,	Total produce on	Bud areas in Maunds.	ວ	13	o ia	25	:	:     			     :   	25	36 132	8 4	1	181	33	11
			Bud.	4	77 0	. —	14	:	:	N'R.			1:1	១ដ			18	<u>5</u> 110 -	
	jmer,	Areas.	Nabud.	3	43	:	116	Nil	:	17 38 67 10	62	138	254	::	<b>-</b>	:	1	<del>.</del>	::
	Taksil Ajmer,		Sown.	63	47		130	:	÷	17 38 67 10	အက	138	268	13.2	e3 ⊶	-	19	16 5	1 -
					:	er ::	:		÷	: : : :	: :	:	:	: :	: :	:	:	Gram	: :
b <sub>L</sub>		1010		1	CLASS I.—Maizo	Red pepper	Total Class I	CLASS II	TOTAL CLASS II	CLASS III.—Til Juar Bajra Kulath	Mung	Total Class III	Total Village	CLASS I.—Barley Gujai	Methi Onions	Zira	TOTAL CLASS I	CLASS II.—Gram Barley and Gram	Delnar Carrots

| Total for year 1313 Fasli 85-12-0 74-1-0 307 Norn.-In Column 6 shall be entered the areas with their produce-(a) irrigated from new wells, (b) irrigated from Tanks by lift. 9.49

19-15-0

97

: : :

63

19

: :::

68

19

23

: : :

TOTAL CLASS II

: :

Nil.

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£2

TOTAL VILLAGE ...

Toral Class III

CLASS III

17:12

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:

: :

:

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37

			n T	tansic aymer,		dauza Ansarı,	Uncle Kajgarh,	κα <i>ygar</i> μ,	Trug	Kharif 1307 Fasti.	٠
Cron			Апеля.		Total produce on	Remarks as to areas to be	Assesquir At Ordinauy Rates		Standard	Col. 7 multiplied by Col. 9 (normal	VIL- BITAR
	02	Sown.	Nabud.	Burt.	Bud areas in mrands,	specially assessed.	Агеа.	Produce.	per acre.	yields in the artual assessable areas).	auT Laori
1	<u> </u>	C1	8	+	10	9	7	œ	0	10	11
CLASS IMaizo		:	:	50	099		50	099	Mds. Srs. 8 20	Mds.	Rs. A. P.
Cotton	:	:	:	26	364	:	26	361		176	Oc. o
pper	: :	: :	: :	17	239	: :	17	23.0	200	170	0 0 600 II 0-0-0 X 16
	:	:	:		တ		-	<b>∞</b>		G	1
TOTAL CLASS I	<u> </u> :	:	:	97	1,297		97	1,297	     	816	339 8 0
CLASS II.—Carrots	<u> </u> :	:	:	!	01/6			9/40	10 0	10	1×1-8.0 = 1 8 0
TOTAL CLASS II	:	:	:		01/6		-	01/6	] :	10	1 8 0
	<u> </u> :	:	::	145	1,020		115	1,020		435	
Jowar	:	:	:	iS &	123		<u>υ</u> α	123	O 00	<u> </u>	$^{1}189 \times 0.8.0 = 94 \ 8 \ 0$
	: :	: :	: :	16	95		6	95	7	500	
Total Class III	<u> </u> :	:	:	189	1,252		189	1,252	:	500	0 8 76
Total Village	<u> </u>	:	:	287	2,519		287	2,519	     :	1,335	435 8 0
CLASS I.—Gujai	:	:	:	37	620		37.	620	ì	481	Rabi 1314 F.
	::	::	: :	. EI	145	:::	12.	145	211	138	$54 \times 38.0 = 189 0 0$
Methi Zira	<u>:</u> :	::	::		9	: :		9		ာ က	:
Toral Class I	<u> </u> :	:	:	10	822		27	822	:	659	189 0 0
CLASS II.—Bejhar Gram	: :	::	: :	60 116	490 524	: :	911	490 524	7 0 3 30	120 135	$ 176 \times 1.8.0 = 264 \ 0 \ 0$
Total Class II	. <u> </u> :	:	:	176	1,014		176	1,014	:	855	0 0 798
CLASS III.—	!	:	:	:	:		:	:	:	:	
Total Class III	 :	:	:	:	:		:	:	:	:	
Total Village	<u></u> :	:	:	230	1,836		230	1,836		1,514	453 0 0

				Tahsil djmer,	ljmer,	Appendix XI	XX— $(E)$ . Circle $F$	—(E). Girele Rajgurh,	Khan	Kharif 1307 Fasti.	
ζ			Annas.		Total produce on		ASSESSABLE AT ORDINARY RATES	. 1	Standard	Col. 7 multiplied by Col. 9 (Normal	Vir-
Chop.		Sown.	Nabud.	Bud.	Bud areas in Maunds.	to be specially assessed.	Arca.	Produce.	per aere.	yields in the actual assessable areas).	Tun Laori
		C1	6	<b>*</b>	10	9	7	s	0	10	11
CLASS I.—Maize Cotton Red pepper	: : :	67 69 1	33	33 36 1	87 99 2	: : :	33 36 1	87 99 2	Mds, Srs. 8 20 6 30 12 0	Mds. Srs. 280 0 243 0 12 0	$\begin{cases} 7.0 \times 2.13 = 197 & 0 & 0 \\ 13.35 & \text{of } 197 = 69 & 4 & 0 \end{cases}$
Tora Class I	:	137	67	70	188		70	188	:	535	69 † 0
CLASS II	:	:		Nil.			:	:	Nil.		
Toral Class II	:	:	<u> </u> :	:	:		:	i :	       		
CLASS III.—Til	:	82	1- 1	-	1		1		1 10	13	1 × 0.6.6 = 0 6 6
Jowar Chanoula	: :		÷ 27 -	::	::	: :	::	: :	: :	: :	5 of 0.6-6 = 0 6 6
Mung Kulath Parin	::	- 61 [6	1 2 1	::	::	: :	::	::	: :		
as form	:	1			:		:	- <del>                                    </del>	:		
Toral Class III	:	328	327	-			-	7		1}	9 9 0
Toral Vierage	:	465	391	71	189		7.1	189	:	536}	69 10 6
CLASS LWheat Barley	::	29		29	1143		- ဇ္ဌ	148	10 20	10-20	83 × 2 = 13.0 = 90 0 0
Onions Methi	: :	<b>⊣</b> ເ1	: :					<b>-</b>		0.01	15th of 90-0= 38 0 0
TOTAL CLASS I	:	33		32	151		32	151	: :	359.	38 0 0
Carss II.—Gram	::	3		13	9		e -	6	3 30	11.10	$\begin{cases} & 1 \times 1.1.6 = 4 & 6 & 0 \\ & 1.0 & 0 & 1.6.0 = 2 & 1 & 0 \end{cases}$
TOTAL CLASS II	:	791	:	-#	10		-	10	:	21.0	2 1 0
CLASS III	:	:	   : 				     	:	Nil.	:	
Toral Class III	:	:	       	     	:		:	:	:	:	
TOTAL VILLAGE	<u>'</u>	37	1	36	101		36	161	:	380	40 1 0
Nore,—In Column 6	shall b	e entered	the areas	with their	produce-(a)	Nore, In Column 6 shall be entered the areas with their produce -(a) irrigated from new wells, (b) irrigated from Tanks by lift.	b) irrigated	from Tank	s by lift.		Total for year 1307 F. 109-11-0.

	Tah	Tahsil Ajmer,	ner,		Maura	Bhimpura, Circle	Oircle	Circle Raigarh,		Khariy	Kharif 1308 Fasli.
Chon			Abeas.		Total produce on	Remarks as to areas to be	ASSESSADLE AT Ordinary Rates	Ι.	Standard	Col. 7 multiplied by Col. 9 (Normal	VIL. Class
	, J	Sown.	Nabud.	Bnd.	Bud areas in Maunds.		Area.	Produco.	per acre.	yields in the actual assessable areas).	Tite True True True True True True True Tru
1	<u></u>	2	3	7	5	9	-	8	6	10	11
Class I.—Maize Cotton Red pepper	:::	:::	:::	62 38 1	326 218 2	1111	62 38 1	326 318 2	Mds. Srs. 8 20 6 30 12 0	Mds. 527 257 13	Rs. a. p. $\begin{cases} 101 \times 2 \cdot 13 \cdot 0 = 284 & 0 & 0 \\ & & & & & \\ \end{cases}$
Total Class I	:	:	:	101	546	****	101	546	:	796	284 0 0
Class II.—	:				Nil				Nil.		The state of the s
Total Class II	:				Nil				Will		
Class III.—Bajra Jowar Mung Til Kulath Chanola			: : : : :	105 18 2 2 3 1	437 67 10 242 1		105 18 2 2 84 1	437 67 10 242 1	3 1 1 1 2 2 3 1 1 2 3 3 3 3 3 1 1 1 1 2 3 3 3 3	315 36 4 105 3	$\begin{cases} 211 \times 0.6.6 = 86 & 0 & 0 \end{cases}$
Total Class III	 :	:	:	211	760		211	760	:	463	0 0 98
Total Village	<u> </u>	:	:	312	1,306		312	1,306	:	1,259	370 0 0
Class I.—Gujai Barley Wheat Tijara	::::	::::	: : : :	67	98 949 110 2		67	98 949 110	13 0 11 20 10 20 3 30	91 771 74	B3 × 2-13.0 = 233 7 0
Total Class I	:	:	:	83	1,159		es S	1,159	:	943	233 7 0
Class II.—Bejhar Gram	<u> </u> ::	::	::	961 196	379 1,096		196	379	3 30	322 735	$342 \times 1.1.6 = 364  11  0$
Total Class II	<u> </u> ;	:	:	242	1,475		242	1,475	:	1,057	264 11 0
Class III	<u>i</u> :				Nil			N.il.			
Toral Class III	<u>i                                      </u>				Nil			N'i!			
Toral Village	<u></u>	     :	:	325	2,634		325	2,634		2,000	498 2 0
72	1										

	Kharif
mx XX - (G).	Raigarh.
XX-(G)	Gircle
APPENDIX	Mauza Bhimpura.
	Mauza
	Taksil Aimer.

<b>40</b> 2			AREAS.			Remarks as to areas to be	ABSESSABLE AT ORDINARY RATES	. 1	Standard Standard	Col. 7 multiplied by Col. 9 (normal	Vrt. genta
d.		Sown.	Nabud.	Bud.	Bud areas in ni ands.		Area.	Produce.	per acre.	yiekky in the actual assessable areas).	аит вит
		CI	m	4	5	9	7	æ	0	10	11
CLASS I.—Maizo Cotton	: :	62 78	57	22	10 67		23	10 67	Mds. Srs. 8 20 6 30	Mds. Srs. 42 20 148 20	Rs. As. P. $27 \times 2.13.0 = 76 0 0$ 151  cof  76.00 = 30 10 0
TOTAL CLASS I	:	140	113	- 16	2.2		16	11.	:	191 0	30 10 0
CLASS II	:			Nil.			]		Nil		Antania antania (Antania) anta
TOTAL CLASS II	:	 		N.I.	       				N:U		
Class III.—Jowar Bajra Til Chanaula Kulath Moth	::::::	162 160 21 21 8	162 160 160 21 1 1 8						Nil		
Total Class III	:	353	353	:	:		:	:	:	:	*******
Total Village	:	493	460	22	77	••••	27	11	:	191 0	30 10 0
Class I.—Barley Methi Gujai	:::	26 1 8	:::	26 1 8	102 2 2 7:0		36 1 8	201 2 70	11 20 5 0 13 0	299 0 5 0 104 0	Rabi 1313F. 35 x 2-13.0 = 98 7 0  243 of 98-7.0 = 65 14 0
TOTAL CLASS I	:	35	:	35	273	****	35	273	:	408 0	65 14 0
CLASS II.—Gram	. ;	1	:	2	30	•••	1	30	3 30	0 98	7×1-1.6 = 111 0
- Total Class II	:	7	:		30	••••	1	30	:	26 0	7 11 0
-CLASS III	:			N.i.			[ .     		Nil.		
Total Class III	:	!       ,		Nil					Nil		
TOTAL VILLAGE	:	42	:	43	303		42	303	:	434 0	73 9 0
											M. 4.1 5 1919 T 404 9

APPENDIX XX—(H).

•	Class	Free Class III, 0.6-6.	11	Rs. A. P. 108 × 2-13-0 = 30 t 0 0	304 0 0			423 × 0-6-6 = 172 0 0		172 0 0	476 0 0	Rabi 1314 F. 68 × 2·13·0 = 191 4 0	.191 4 0	225 × 1-1-6 = 246 0 0	246 0 0			437 4 0	Total for year 1314 F, 913 4 0
14 F.	Col. 7 multiplied by Col. 9 (Normal	rields in the actual assessable areas).	10	Mds. Srs. 510 0 318 0 12 0	840 0			729 0 254 0	46 10	1,061 0	1,901 0	73 20 247 0 460 0	i	413 0 622 0	1,035 0			1,824 0	
Kharif 1314	Col. 7	yields i as-essa								1,	L,				1,			1,	ft.
	Standard	per acre.	6	Mds. Srs. 8 20 6 30 12 0	:	. Nil.	Nil.	2 G G		:	:	11300		3 30	:	Nil.	Nil.	:	n Tanks by li
Circle Rajgarh,	ABSESSABLE AT ORDINARY RATES.	Produce.	æ	386 424 5	815			750 398	18	1,256	2,071	78 298 574 5	956	384 524	908			1,864	rigated from
Circle	ABSESSA Ordinar	Area,	7	60 47 1	108			213	22.0	423	531	5.0 0.1 1	89	59	225	 		293	wells, (b) ir:
Mauza Bhimpura,	Remarks as to areas	to be specially assessed.	9					,			*****								NoreIn column 6 shall be entered the areas with their produce-(a) irrigated from now wells, (b) irrigated from Tanks by lift.
η,	Total produce on	Bud areas in Maunds.	5	386 424 5	815			750 398 96	186	1,256	2,071	78 298 574	956	381	908			1,864	h their produ
Tahsil Ajmer,	Areas.	Bud.	77	60 47 1	108	Nil.	Nil.	. 243	0.77	423	531	19 40 1	89	59	225	Nil.	Nii.	293	he areas wit
$T^{\alpha}$		Nabud.	e e	:::	:			: : 	:::	   : 	   : 	::::	:   :	: :	:		       	:	be entered t
		Sown.	C1	:::	:	 		::	: : :	:	:		:   :	: :	:	     	 	:	nn 6 shall
				: : :	:	:	:	::	: : :	:	:	::::	: :	: :	:	:	:	:	In colu
	ŧ	Cnor.	1	CLASS I.—Maize Cotton Red pepper	Total Class I	CLASS II	Total Class II	CLASS III.—Bajra Jowar	Lin Til Kulath	Total Class III	Total Village	Crass I.—Wheat Gujai Barley Methi	Zira Total Class I	CLASS II—Bejhar Gram	Foral Class II	CLASS III.	TOTAL CLASS III	Total Village	Note.



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